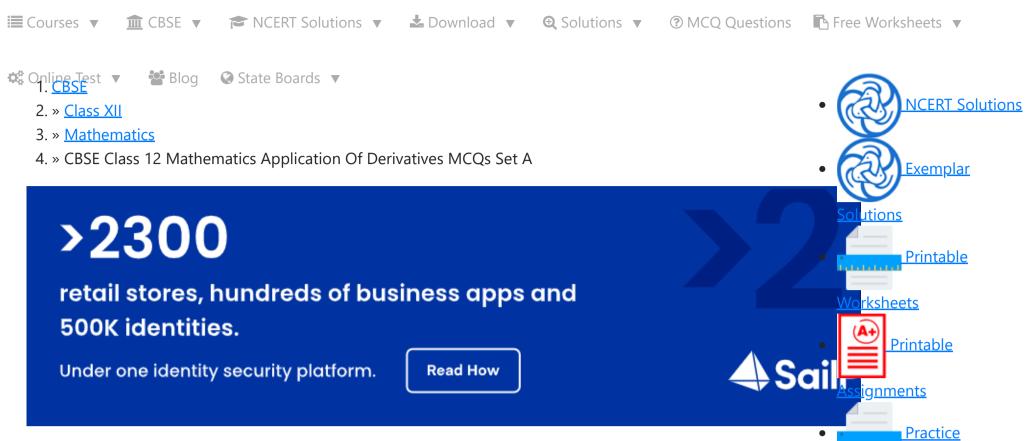


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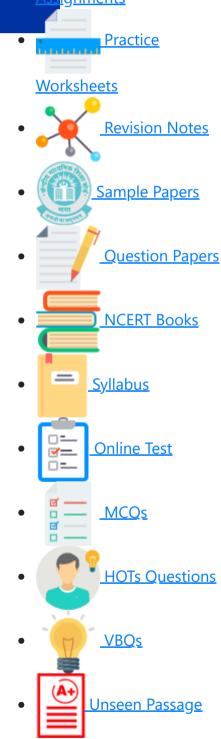
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Application Of Derivatives Class 12 MCQ

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Class 12 Application Of Derivatives MCQ Questions with Answers



Chapters

- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
- Matrices
- Determinants
- Continuity And Differentiability

- 1. The rate of change of area of a circle with respect to its radius r at r= 6 cm is
 - a) 10π
- b) 12π
- c) 11π
- d) 8π
- Total revenue in rupees received from the sale of x units of a product is given by

 $R(x)=3x^2+36x+5$. The marginal revenue, when x=15 is

- a)Rs 116
- b)Rs 96
- c) Rs 36
- If the rate of change of area of the circle is equal to the rate of change of its diameter then its radius is equal to
 - a) πunits
- b) units
- c) $\frac{\pi}{2}$ units
- 4. The rate of change of volume of a sphere is equal to the rate of change of the radius then its radius equal to
 - a) ¹/_πunits
- c) $\frac{1}{2\sqrt{\pi}}$ units d) $\frac{1}{\sqrt{\pi}}$ units
- 5. The maximum value of $\sin x \cdot \cos x$ is
 - (A) $\frac{1}{4}$ (B) $\frac{1}{2}$ (C) $\sqrt{2}$ (D) $2\sqrt{2}$
- 6. The function f(x) = Sinx(1 + Cosx) is maximum in the interval $[0, \pi]$ at x is equal to
- b) $\frac{\pi}{3}$

- 7. If the rate of change of volume of a sphere is equal to the rate of change of its radius then the surface area of sphere is
 - a) 0
- c)3
- d)1/3
- 8. Let f have second derivative at c such that f'(c) = 0 and f''(c) > 0, then c is a point of

ANSWERS

- 1. (b)
- 3. (b)

2. (d)

- 4. (c) 5. (B) 6. (b)
- Local Minima 7.(b)

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Chapter 5 Continuity and Differentiability

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- Application Of **Derivatives**
- Integrals
- Application Of Integrals
- Differentials Equation
- Vectors Algebra
- Three Dimensional <u>Geometry</u>
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Chapter 6 Application of Derivatives

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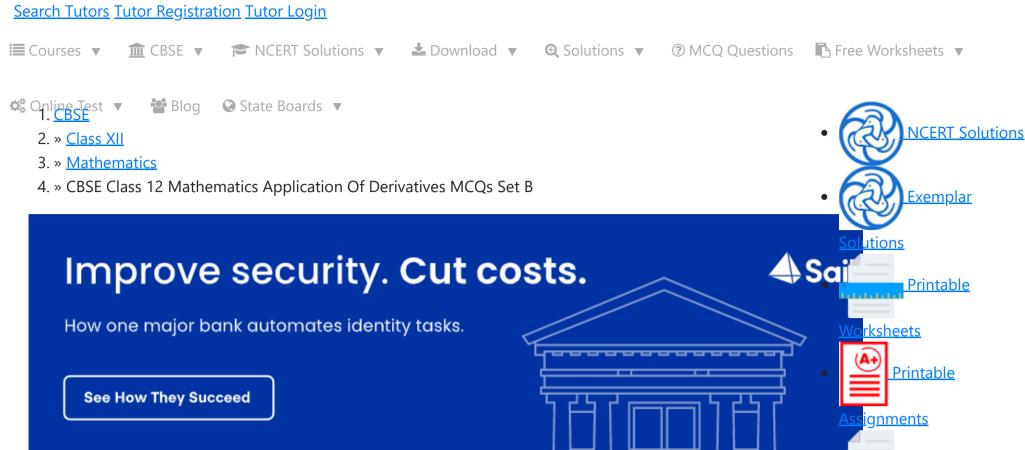
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Application Of Derivatives Class 12 MCQ

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Class 12 Application Of Derivatives MCQ Questions with Answers

Question: The rate of change of area of a circle with respect to its radius r at r= 6 cm is

- a) 12π
- b) 11π
- c) 8π
- d) 10π

Chapters

Relations and Functions

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- Inverse Trigonometric **Functions**
- Matrices
- Determinants
- Continuity And **Differentiability**

Answer:

12π

Question: Total revenue in rupees received from the sale of x units of a product is given by $R(x)=3x^2+36x+5$. The marginal revenue, when x=15 is

- a) Rs 126
- b) Rs 36
- c) Rs 96
- d) Rs 116

Answer: Rs 126

Question: If the rate of change of area of the circle is equal to the rate of change of its diameter then its radius is equal to

- a) $\frac{1}{\pi}$ units
- b) $\frac{\pi}{2}$ units
- c) π units
- d) $\frac{2}{\pi}$ units

Answer:

$$\frac{1}{\pi}$$
units

Question: The rate of change of volume of a sphere is equal to the rate of change of the radius then its radius equal to

- a) $\frac{1}{2\sqrt{\pi}}$ units
- b) $\frac{1}{\sqrt{\pi}}$ units
- c) π units
- d) $\frac{1}{\pi}$ units

Answer:

$$\frac{1}{2\sqrt{\pi}}$$
 units

- Application Of Derivatives
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Question: The maximum value of sin x. cos x is

- a) 1/2
- b) 1/4
- c) √2
- d) None of these

Answer : 1/2

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Question:

The function f(x) = Sinx(1 + Cosx) is maximum in the interval $[0, \pi]$ at x is equal to

- a)
 - $\frac{\pi}{3}$
- b)
 - $\frac{\pi}{4}$
- c) $\frac{\pi}{6}$
- d) π/2

Answer:

 $\frac{\pi}{3}$

Question: If the rate of change of volume of a sphere is equal to the rate of change of its radius then the surface area of sphere is

- a) 1
- b) 3
- c) 1/3
- d) 0

Answer: 1

Question: The number of roots of $x^3 - 3x + 1 = 0$ in [1, 2] is

- a) One
- b) Two
- c) Three
- d) None of these

Answer: One

Question: Let $h(x) = f(x) - [f(x)]^2 + [f(x)]^3$ for every real number x. Then

- a) h is increasing whenever f is increasing
- b) h is increasing whenever f is decreasing
- c) h is decreasing whenever f is increasing
- d) Nothing can be said in general

Answer: h is increasing whenever f is increasing

Question: Let $f(x) = 1 + 2x^2 + 2^2x^4 + \dots + 2^{10}x^{20}$. Then f(x) has

- a) Exactly one minima
- b) Ablest one maximum
- c) None of these
- d) More than one minima

Answer: Exactly one minima

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Ministry of Education, Govt. of India vide D.O No. 12-4/2021-IS.4 dated 04.01.2022 intimated that 12 January 2022 will be celebrated as "National Youth Day" and "Birth Anniversary of Swami Vivekananda". All Schools affiliated to CBSE may celebrate 12 January 2022 as...

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Class 12 Continuity and Differentiability MCQ Questions with Answers

Question:

Let f(x) = |x| + |x - 1|

then f(x) is continuous at

- a) x=0,and x=1
- b) x=0 ,but not at x=1
- c) x=1 but not at x=0
- d) none of these

Answer: x=0, and x=1

Question:

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- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
- Matrices
- Determinants
- Continuity And Differentiability

If
$$f(x) = \int mx+1$$
, $x \le \frac{\pi}{2}$
 $sinx+n$ $x > \pi/2$

is continuous at $x=\frac{\pi}{2}$, then

- a) $n=m\frac{\pi}{2}$
- b) $m=n=\frac{\pi}{2}$
- c) $m=n\frac{\pi}{2}+1$
- d) m=1,n=0

Answer:

$$n=m\frac{\pi}{2}$$

Question: The function f(x)=tanx is discontinuos on the set

- a) $\{(2n+1)\frac{\pi}{2}: n\epsilon Z\}$
- b) {nπ/2:nεZ}
- c) {2nπ:nεZ}
- d) $\{n\pi: n\epsilon Z\}$

Answer:

$$\{(2n+1)\frac{\pi}{2}: n\epsilon Z\}$$

Question: If $f(x) = x \sin(1/x)$, x is not zero, then the value of the function at x = 0, so that the function is continuous at x = 0, is

- a) 0
- b) -1
- c) 1
- d) indeterminate

Answer: 0

Question: If the function $f(x)=(2x-\sin^{-1}x)/(2x+\tan^{-1}x)$ is continuous at each point of its domain, then the value of f(0) is

- a) 1/3
- b) -1/3
- c) 2/3
- d) 2

Answer : 1/3

- <u>Derivatives</u><u>Integrals</u>

Application Of

- Application Of Integrals
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- Vectors Algebra
- <u>Three Dimensional</u> <u>Geometry</u>
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Question: Let f(x)=|x| and $g(x)=|x^3|$ then

- a) f(x) and g(x) both are continuous at x=0
- b) f(x) and g(x) both are differentiable at x=0
- c) f(x) is differentiable but g(x) is not differentiable at x=0
- d) f(x) and g(x) both are not differentiable at x=0

Answer: f(x) and g(x) both are continuous at x=0

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Question: The function $f(x)=1+|\cos x|$ is

- a) continuous everywhere
- b) continuous no where
- c) not differentiable at x=0
- d) None of these

Answer: continuous everywhere

Question: If sin(x+y)=log(x+y) then dy/dx =

- a) -1
- b) 1
- c) -2
- d) 2

Answer: -1

Question: The derivative of $\cos^{-1}(2x^2-1)$ with respect to $\cos^{-1}x$ is

- a) 2
- b) 1/2(1-x2)^{1/2}
- c) 2/x
- d) 1-x²

Answer: 2

Question:

If $y = \log \sqrt{tanx}$, then the value of $\frac{dy}{dx}$ at $x = \frac{\pi}{4}$ is given by

- a) 1
- b) 0
- c) 1/2
- d) None of these

Answer: 1

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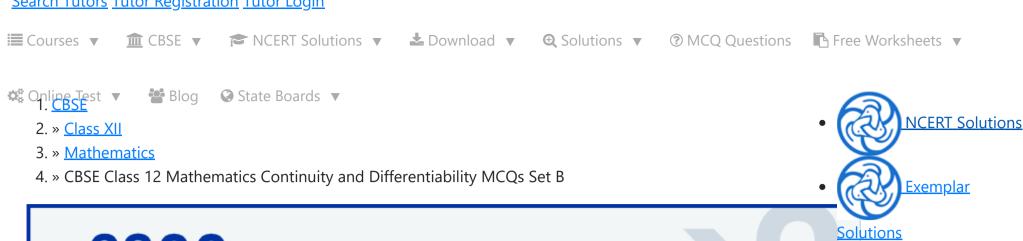
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Class 12 Continuity and Differentiability MCQ Questions with Answers



Chapters

- Relations and Functions
- Inverse Trigonometric **Functions**
- Matrices
- Determinants
- Continuity And Differentiability

CONTINUITY AND DIFFERENTIABILITY MULTIPLE CHOICE QUESTIONS

1.Let f(x) = |x| + |x - 1|

then f(x) is continuous at

(a) x=0, and x=1 (b) x=0, but not at x=1 (c) x=1 but not at x=0 (d) none of these

2.If
$$f(x) = \int_{0}^{1} mx+1$$
, $x \le \frac{\pi}{2}$
 $sinx+n$ $x > \pi/2$ is continuous at $x = \frac{\pi}{2}$, then

(a) $m=1, n=0$ (b) $m=n\frac{\pi}{2}+1$ (c) $n=m\frac{\pi}{2}$ (d) $m=n=\frac{\pi}{2}$

The function f(x)=tanx is discontinuos on the set

(a)
$$\{n\pi:n\epsilon Z\}$$
 (b) $\{2n\pi:n\epsilon Z\}$ (c) $\{(2n+1)\frac{\pi}{2}:n\epsilon Z\}$ (d) $\{n\pi/2:n\epsilon Z\}$

- 4. If $f(x)=x\sin\left(\frac{1}{x}\right)$, x is not zero, then the value of the function at x=0, so that the function is continuous at x=0, is
 - (b) -1 (c)1 (d) indeterminate
- 5.If the function f(x)=(2x-sin⁻¹x)/(2x+tan⁻¹x) is continuous at each point of its domain, then the value of f(0) is
 - (a)2 (b)1/3 (c)-1/3 (d)2/3
- 6.Let f(x)=|x| and $g(x)=|x^3|$ then
 - (a)f(x) and g(x) both are continuous at x=0
 - (b) f(x) and g(x) both are differentiable at x=0
 - (c) f(x) is differentiable but g(x) is not differentiable at x=0
 - (d)f(x) and g(x) both are not differentiable at x=0
- 7. The function f(x)=1+|cosx| is
 - (a)continuous no where (b)continuous everywhere
 - (c)not differentiable at x=0 (d)not differentiable at x=nπ,nεN
- 8.If $\sin(x+y) = \log(x+y)$ then $\frac{dy}{dx} =$
 - (b)-2 (c)1 (d)-1
- 9. The derivative of cos⁻¹(2x²-1) with respect to cos⁻¹x is
 - (a)2 (b) $1/2(1-x^2)^{1/2}$ (c)2/x (d) $1-x^2$
- 10. If $y = \log \sqrt{tanx}$, then the value of $\frac{dy}{dx}$ at $x = \frac{\pi}{4}$ is given by
 - (a)∞

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1.a 2.c 3.c 4.a 5.b 6.a 7.b 8.d 9.a 10.b

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- Application Of **Derivatives**
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- Application Of Integrals
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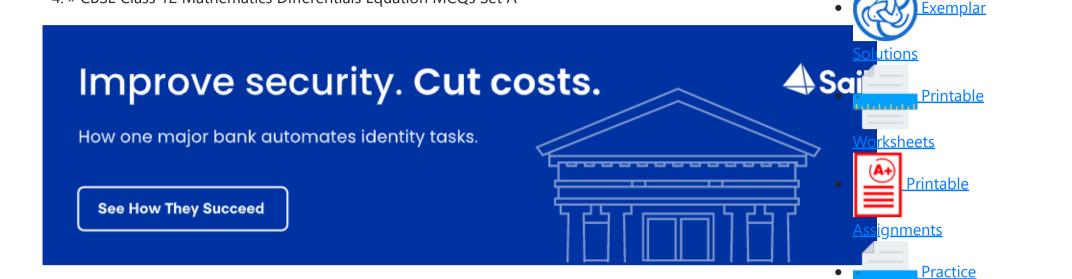
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Question:

The integrating factor of the differential equation $(x \log x)\frac{dy}{dx} + y = 2 \log x$

- (a) log x
- (b) log (logx)
- (c) e^x
- (d) x

Answer: log xfdrcx 0-\]

Question:

The degree of the differential equation $\left(\frac{d^2y}{dx^2}\right)^3 + \left(\frac{dy}{dx}\right)^2 + \sin\left(\frac{dy}{dx}\right) + 1 = 0$,

• (a) not defined

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Chapters

- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
- Matrices
- Determinants
- Continuity And Differentiability

- (b) 1
- (c) 2
- (d) 3

Answer: (a)

Question:

The order of the differential equation $2x^2 \frac{d^2y}{dx^2} - 3 \frac{dy}{dx} + y = 0$, is

- (a) 2
- (b) 1
- (c) 0
- (d) not defined

Answer: (a)

Question: The number of arbitrary constants in the general solution of differential equation of fourth order is

- (a) 4
- (b) 3
- (c) 2
- (d) 0

Answer: (a)

Question: The order of the differential equation of all the circles of given radius 4 is

- (a) 2
- (b) 3
- (c) 4
- (d) 5

Answer: (a)

Question: The degree of the differential equation

$$\frac{d^2y}{dx^2} + 3\left(\frac{dy}{dx}\right)^2 = x^2 \log\left(\frac{d^2y}{dx^2}\right)$$
is

- (a) not defined
- (b) 2
- (c) 3
- (d) None of these

Answer: (a)

Question:

The order of the differential equation $2x^2 \frac{d^2y}{dx^2} - 3\frac{dy}{dx} + y = 0$ is

- (a) 2
- (b) 1
- (c) 0
- (d) Not defind

Answer: (a)

Question: If p and q are the degree and order of the differential equation

$$\left(\frac{d^2y}{dx^2}\right)^2 + 3\frac{dy}{dx} + \frac{d^3y}{dx^3} = 4,$$

• a) -7

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- - b) -8

 - (c) 8 • d) 7

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Answer: -(c)

Question: The order the differential equation

 $\frac{d^2y}{dx^2} - \left(\frac{dy}{dx}\right)^2 = 1 \text{ is}$

- (a) one
- (b) two
- (c) four
- (d) zero

Answer: (b)

Question: The degree of the differential equation

$$\sqrt{1 + \left(\frac{dy}{dx}\right)^2} = x^2 is$$

- (a) one
- (b) two
- (c) half
- (d) four

Answer: (b)

Question: The differential equation of the family of curves y = $e^{x}(A \cos x + B \sin x)$, where A, B are arbitrary constants, has the degree n and order m. Then

- (a) n = 2, m = 1
- (b) n = 2, m = 2
- (c) n = 1, m = 2
- (d) n = 1, m = 1

Answer: (c)

Question: The general solution of a differential equation is y = aebx+c where a, b, c are arbitrary constants. The order of the differential equation is

- (a) 3
- (b) 2
- (c) 1
- (d) none of these

Answer: (b)

Question: The general solution of a differential equation is (y + $(c)^2 = cx$ where c is an arbitrary constant. The order and degree of the differential equation are respectively

- (a) 1, 2
- (b) 2, 2
- (c) 1, 1
- (d) 2, 1

Answer: (a)

Question: The degree and order of the differential equation of the family of all parabolas whose axis is the x-axis, are respectively

Search

- (a) 1, 2
- (b) 3, 2
- (c) 2, 3
- (d) 2, 1

Answer: (a)

Question: The order and degree of the differential equation of the family of circles touching the x-axis at the origin, are respectively

- (a) 1, 1
- (b) 1, 2
- (c) 2, 1
- (d) 2, 2

Answer: (a)

Question: The order and degree of the differential equation of the fami&*aving the same foci, are respectively

- (a) 1, 1
- (b) 2, 1
- (c) 2, 2
- (d) 1, 2

Answer: (d)

Question: If y(t) is a solution of the equation

$$(1 + t) \frac{dy}{dt} - ty = 1$$
 and $y(0) = -1$ then $y(1)$ is

- (a) -1/2
- (b) e+1/2
- (c) e-1/2
- (d) 1/2

Answer: (a)

Question: The solution of (x + logy)dy + y dx = 0 when y(0) = 1 is

- (a) $y(x 1) + y \log y = 0$
- (b) y(x 1 + log y) + 1 = 0
- (c) xy + ylogy + 1 = 0
- (d) none of these

Answer:(b)

Question: The general solution of the equation

$$(1 + y^2) + (x - e^{\tan^{-1}y}) \frac{dy}{dx} = 0$$
 is

(a) $2xe^{tan^{-1}y} = e^{2tan^{-1}y} + k$

(b) $xe^{tan^{-1}y} = tan^{-1}y + k$

(c) $xe^{2 tan^{-1} y} = e^{tan^{-1} y} + k$

(d) $X = 2 + ke^{-tan^{-1}y}$

Answer:(a)

Question:

Let
$$\frac{df(x)}{dx} = \frac{e^{\sin x}}{x}$$
, $x > 0$. If $\int_{1}^{4} \frac{3e^{\sin x^{3}}}{x} dx = f(k) - f(1)$ then one of the possible values of k is

- (a) 16
- (b) 63
- (c) 64
- (d) 15
- Answer: (c)

Question:

If
$$x \frac{dy}{dx} + y = x \cdot \frac{f(x \cdot y)}{f'(x \cdot y)}$$
 then $f(x \cdot y)$ is equal to (k being an arbitrary constant)

- (a) ke^{x²/2}
- (b) ke^{y³/2}
- (c) ke^{xy/2}
- (d) none of these

Answer: (a)

Question: The differential equation $\Phi f(x)dy = y \{f\Phi'(x) - y\}dx$ is changed in the form df(x, y) = 0. Then f(x, y) is

- (a) $1/2\Phi(x)+y$
- (b) $1/y\Phi(x)-x$
- $(c)1/y\Phi(x)+x$
- (d) $\Phi(x)/y$

Answer: (b)

Question: The solution of primitive integral equation $(x^2 + y^2)dy =$ xy. dx is y = y(x). If y(1) = 1 and y(x) = e then x is

(a)
$$\sqrt{2(e^2-1)^2}$$

(b)
$$\sqrt{2(e^2+1)}$$

(a)
$$\sqrt{2(e^2-1)}$$
 (b) $\sqrt{2(e^2+1)}$ (c) $\sqrt{3}e$ (d) $\sqrt{\frac{1}{2}(e^2+1)}$

Answer:(c)

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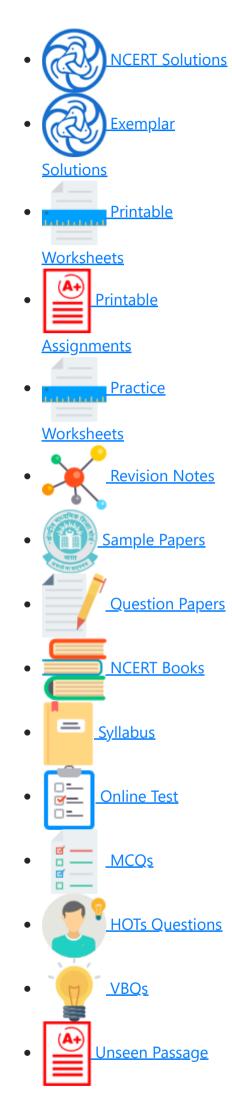
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Class 12 Differentials Equation MCQ Questions with Answers



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- Relations and Functions
- Inverse Trigonometric
 Functions
- Matrices
- <u>Determinants</u>
- Continuity And <u>Differentiability</u>

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DIFFERENTIAL EQUATIONS OBJECTIVE TYPE QUESTIONS

- 1. The integrating factor of the differential equation $(x \log x) \frac{dy}{dx} + y = 2 \log x$
 - (A) log (logx)
- (B) log x
- (C) e^x (D) x
- 2. The general solution of the differential equation $\frac{dy}{dx} = \frac{y}{x}$ is
- (A) $\log y = kx$

- (C) xy = k (D) $y = k \log x$
- 3. The degree of the differential equation $\left(\frac{d^2y}{dx^2}\right)^3 + \left(\frac{dy}{dx}\right)^2 + \sin\left(\frac{dy}{dx}\right) + 1 = 0$,
 - (A) 3

- (B) 2 (C) 1 (D) not defined
- 4. The order of the differential equation $2x^2 \frac{d^2y}{dx^2} 3 \frac{dy}{dx} + y = 0$, is
 - (A) 2

- (B) 1 (C) 0 (D) not defined.
- 5. The number of arbitrary constants in the general solution of differential equation of fourth order is

- (B) 2 (C) 3 (D) 4
- 6. Solution of the differential equation $\frac{dy}{dx} = \frac{1+y^2}{1+x^2}$, y(0) = 1 is given by -----
- 7. Integrating factor of $\cos x \frac{dy}{dx} + y \sin x = 1$ is -----
- 8. Solution of the differential equation $\frac{dx}{x} + \frac{dy}{y} = 0$ isxy = c
- 9. The integrating factor of the differential equation $\frac{dy}{dx} + y = \frac{1+y}{x}$ is
- 10. The general solution of the differential equation, $\frac{dy}{dx} = e^{x-y}$ is -----Answers
- 1. B 2. B 3. D 4.A 5. D 6. $\tan^{-1} y = \tan^{-1} x + \tan^{-1} 1$ 7. Secx 8. xy = c9. $\frac{e^x}{r}$ 10. $e^y = e^x + C$

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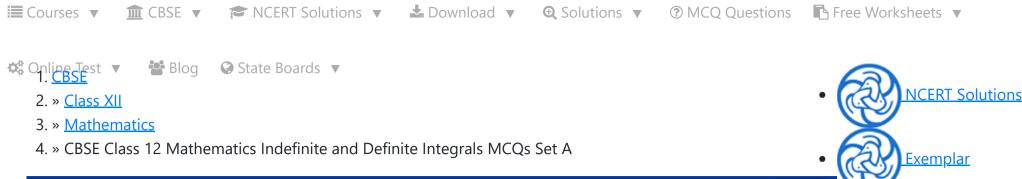
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Question:

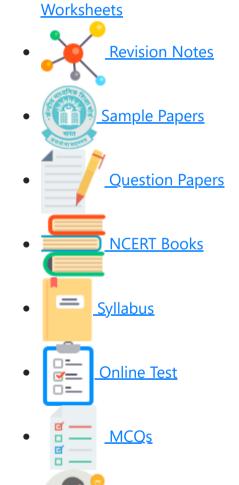
 $\int x^x (1 + \log x) dx$ is equal to

- a) x^x + c
- b) $x^x + 1 + c$
- c) $x^x \log x + c$
- d) None of these

Answer: $x^x + c$

Question:

$$\int \frac{dx}{1-\sin x}$$
 is equal to



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• Relations and Functions

VBQs

Unseen Passage

HOTs Questions

- <u>Inverse Trigonometric</u> Functions
- Matrices
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- Continuity And <u>Differentiability</u>

- a) tanx + sec x + C
- b) tanx sec x + C
- c) Both
- d) None of these

Answer: tanx + sec x + C

Question:

 $\int e^{\log \sin x} dx$ is equal to

- a) cosx + c
- b) sinx + c
- c) sinx + c
- d) None of these

Answer: $-\cos x + c$

Question:

 $\int e^x (\log \sin x + \cot x) dx$

- a) $e^x \log \sin x + c$
- b) e^x tanx + c
- c) $e^x \cot x + c$
- d) None of these

Answer: e^x logsinx + c

Question:

 $\int \frac{\sin x}{\sin(x-a)} dx = Ax + B \log |\sin(x-a)| + C$, then the value of (A,B) is

- a) (cosα, sinα)
- b) (-sinα, cosα)
- c) (sinα, cosα)
- d) None of these

Answer: $(\cos \alpha, \sin \alpha)$

Question : $\int 13^x dx = \dots$

- $\frac{13^x}{\log 13} + C$
- $\frac{13^x}{x \log 13} + 6$
- $\frac{13^x}{\log x} + C$

• d)

- <u>Application Of</u>
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$$\frac{13^x}{13\log x} + C$$

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Answer:

$$\frac{13^x}{log13} + C$$

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Question:

$$\int \frac{e^{5\log x} + e^{4\log x}}{e^{3\log x} + e^{2\log x}} \ dx = \dots$$

- a) $\frac{x^3}{3} + C$
- b) 2x + c
- c) 3x + c
- d) None of these

Answer:

$$\frac{x^3}{3} + C$$

Question:

$$\int \frac{\cos 2x - \cos 2\theta}{\cos x - \cos \theta}$$
 is equal to

- a) 2(sinx + xcosΘ) + C
- b) 2(sinx + 2xcosΘ) + C
- c) 2(sinx -xcosΘ) + C
- d) 2(sinx 2xcosΘ)+ C

Answer: $2(\sin x + x\cos \Theta) + C$

Question:

$$\int \frac{x+\sin x}{1+\cos x} dx$$
 is equal to

- a) $x . \tan \frac{x}{2} + C$
- b) $x \tan \frac{x}{2} + C$
- c) log |x + sin x| +C
- d) None of these

Answer:

$$x . tan \frac{x}{2} + C$$

Question: $\int e^{x}(\cos x - \sin x) dx$ is equal to

- a) $e^x \cos x + c$
- b) e^x cosx c
- c) -e^x cosx c
- d) $-e^x \cos x + c$

Answer: $e^x \cos x + c$

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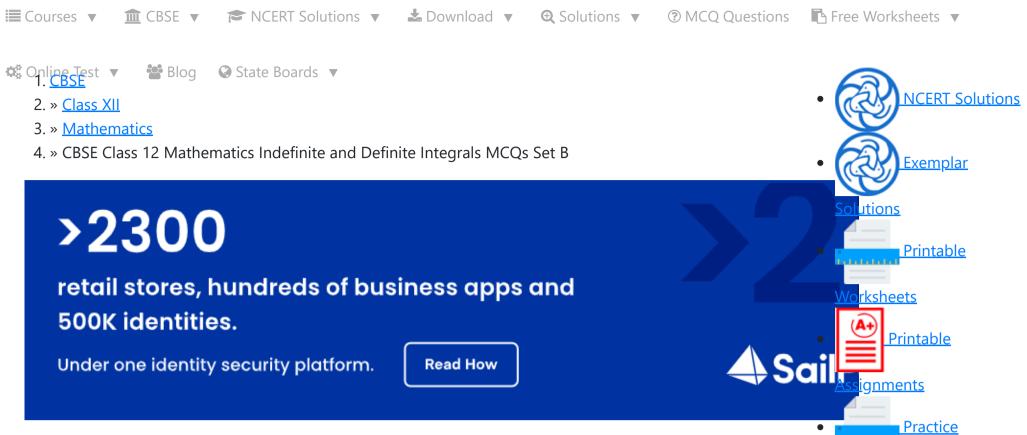
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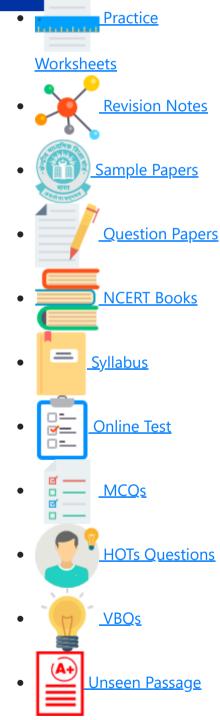
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Indefinite and Definite Integrals Class 12 MCQ

Class 12 Mathematics students should refer to the following multiple-choice questions with answers for Indefinite and Definite Integrals in standard 12. These MCQ questions with answers for Grade 12 Mathematics will come in exams and help you to score good marks

Class 12 Indefinite and Definite Integrals MCQ Questions with Answers



Chapters

- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
- Matrices
- Determinants
- Continuity And Differentiability

13/09/2022, 20:25

INDEFINITE INTEGRAL OBJECTIVE TYPE QUESTIONS

1. $\int x^x (1 + \log x) dx$ is equal to

(A)
$$x^{x} \log x + C$$
 (B) $\frac{x^{x}}{\log x} + C$ (C) $x^{x} + C$ (D) $x^{x} + 1 + C$

$$(C) x^x + C$$

$$(D) x^x + 1 + 0$$

2.
$$\int \frac{dx}{1-\sin x}$$
 is equal to

(B)
$$tanx + sec x + 0$$

(B)
$$tanx + sec x + C$$
 (C) $sec x - tanx + C$

3. $\int e^{\log \sin x} dx$ is equal to

(A)
$$sinx + C$$
 (B) $cosx + C$ (C) $-cosx + C$ (D) $-sinx + C$

$$(C) - cosx + C$$

(D)
$$-\sin x + 6$$

4.
$$\int e^x (\log \sin x + \cot x) dx$$

(A)
$$e^x \cot x + C$$
 (B) $e^x \tan x + C$ (C) $e^x \log x + C$ (D) none

(C)
$$e^x \log \sin x + C$$

5.
$$\int \frac{\sin x}{\sin(x-a)} dx = Ax + B \log |\sin(x-a)| + C$$
, then the value of (A, B) is

6.
$$\int 13^x dx = \dots$$

$$(A) \ \frac{13^x}{logx} + C$$

$$(B) \quad \frac{13^x}{\log 13} + C$$

$$(C) \quad \frac{13^4}{x \log 13} + C$$

$$\begin{array}{lll} \int 13^x \ dx & = & \\ (A) \ \frac{13^x}{\log x} + C & (B) \ \frac{13^x}{\log 13} + C & (C) \ \frac{13^x}{x \log 13} + C & (D) \ \frac{13^x}{13 \log x} + C \\ \end{array}$$

$$7. \int \frac{e^{5\log x} + e^{4\log x}}{e^{3\log x} + e^{2\log x}} dx = \dots$$

$$(A) \quad \frac{x^2}{2} + C$$

(B)
$$\frac{x^3}{3} + C$$

(C)
$$2x + 6$$

(D)
$$3x + 6$$

$$8. \int \frac{\cos 2x - \cos 2\theta}{\cos x - \cos \theta}$$
 is equal to

(A)
$$2(\sin x + x \cos \theta) + C$$

(B)
$$2(\sin x - x\cos\theta) + C$$

(D) $2(\sin x - 2x\cos\theta) + C$

(C)
$$2(\sin x + 2x\cos\theta) + C$$

(D)
$$2(\sin x - 2x\cos\theta) + C$$

9.
$$\int \frac{x+\sin x}{1+\cos x} dx$$
 is equal to

(A)
$$\log |1 + \cos x| + C$$

(A)
$$\log |1 + \cos x| + C$$
 (B) $\log |x + \sin x| + C$ (C) $x - \tan \frac{x}{2} + C$ (D) $x \cdot \tan \frac{x}{2} + C$

$$10. \int e^x (\cos x - \sin x) dx$$
 is equal to

(A)
$$e^x \cos x + C$$

(B)
$$e^x \sin x + C$$

(B)
$$e^x \sin x + C$$
 (C) $-e^x \cos x + C$

(D) -
$$e^x \sin x + C$$

Answers:

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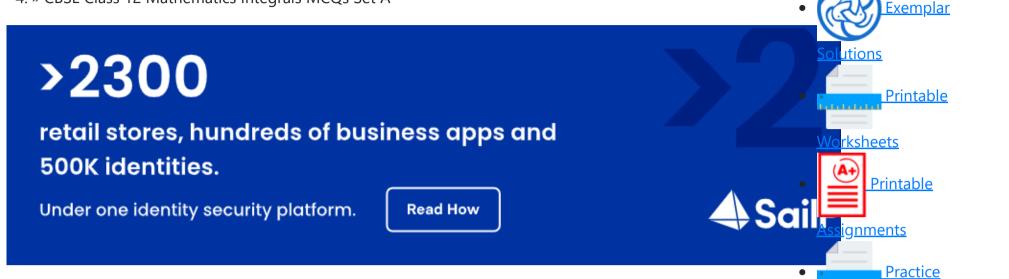
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Class 12 Mathematics students should refer to the following multiple-choice questions with answers for Integrals in standard 12. These MCQ questions with answers for Grade 12 Mathematics will come in exams and help you to score good marks

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Question:

$$\int_0^{\pi/2} \frac{\sqrt{\tan x}}{\sqrt{\tan x} + \sqrt{\cot x}} \ dx =$$

- a) π
 - $\frac{\pi}{4}$
- b)

 π -1

- c)
 - 3

• d)

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 $\frac{\pi}{2}$

Answer:

 $\frac{\pi}{4}$

Question:

 $\int_{-1}^{1} |1 - x| \ dx \quad is equal to$

- a) −2
- b) 1
- c) 3
- d) 2

Answer: - 2

Question:

 $\int_{-10}^{10} \log \left(\frac{2+x}{2-x} \right) \, dx = ---$

- a) 0
- b) 2
- c) e
- d) 1

Answer: 0

Question:

 $\int_0^{\frac{\pi}{2}} \log(\tan x) \ dx =$

- a) 0
- b)

$$\frac{\pi}{8}log8$$

• (

$$\frac{\pi}{8} log 2$$

• d)

$$\frac{\pi}{4} logtanx$$

Answer: 0

Question:

 $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} x^8 \sin^{-1} x \, dx \quad \text{is equal to}$

- a) 0
- b) 1

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- c) 8/15
- d) 5/17

Answer: 0

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Question:

If
$$\int_0^a f(x)dx = 10$$
, then $\int_0^a f(a-x)dx$, is equal to

- a) 10
- b) 10
- c) 100
- d) 1

Answer: 10

Question:

$$\int_{-2}^{2} |x| \ dx = - - -$$

- a) 4
- b) 3
- c) 2
- d) 1

Answer: 4

Question:

$$\int_0^{\frac{\pi^2}{4}} \frac{\sin\sqrt{x}}{\sqrt{x}} \ dx = ---$$

- a) 2
- b) 1
- c)

 π

• d)

 $\frac{\pi}{2}$

Answer: 2

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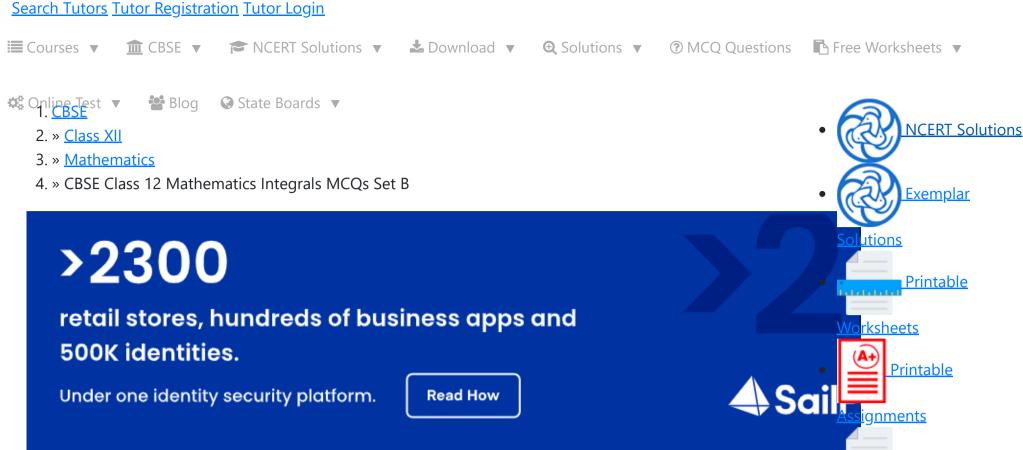
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CBSE Class 12 Mathematics Integrals MCQs Set B

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Integrals Class 12 MCQ

Class 12 Mathematics students should refer to the following multiple-choice questions with answers for Integrals in standard 12. These MCQ questions with answers for Grade 12 Mathematics will come in exams and help you to score good marks

Class 12 Integrals MCQ Questions with Answers



Chapters

- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
- Matrices
- <u>Determinants</u>
- Continuity And <u>Differentiability</u>

DEFINITE INTEGRAL OBJECTIVE TYPE QUESTIONS

$$1. \int_{0}^{\pi/2} \frac{\sqrt{\tan x}}{\sqrt{\tan x} + \sqrt{\cot x}} dx =$$

$$--- (A) \frac{\pi}{2} (B) \frac{\pi}{3} (C) \frac{\pi}{4} (D) \pi -1$$

$$2 \int_{-1}^{1} |1 - x| dx \text{ is equal to} (A) 3 (B) 2$$

$$2\int_{-1}^{1} |1-x| \ dx \quad \text{is equal to}$$

$$3. \int_{-10}^{10} \log \left(\frac{2+x}{2-x} \right) dx = --- \qquad (A) \quad 1 \qquad (B) \quad 0 \qquad (C) \quad 2$$

$$(B)$$
 0

$$4. \int_0^{\frac{\pi}{2}} \log(\tan x) \ dx =$$

...... (A)
$$\frac{\pi}{4} log tan x$$
 (B) $\frac{\pi}{8} log 2$ (C) 0 (D) $\frac{\pi}{8}$ 5. $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} x^8 sin^{-1} x dx$ is equal to (A) $\frac{5}{17}$ (B) $\frac{8}{15}$

B)
$$\frac{\pi}{s} log 2$$
 (C)

$$(D)\frac{\pi}{8}log($$

$$5. \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} x^8 \sin^{-1} x \, dx$$

$$(4)\frac{5}{17}$$

6. If
$$\int_0^a f(x)dx = 10$$
, then $\int_0^a f(a-x)dx$, is equal to

7.
$$\int_{-2}^{2} |x| dx = - - -$$

$$(A) \ 10 \quad (B) - 10 \quad (C) \ 100 \quad (D) \ 1$$

$$7. \int_{-2}^{2} |x| \ dx = --- \quad (A) \ 1 \quad (B) \ 2 \quad (C) \ 3 \quad (B) \ 2$$

$$8. \int_{0}^{\frac{\pi^{2}}{4}} \frac{\sin \sqrt{x}}{\sqrt{x}} \ dx = --- \quad (A) \ 2 \quad (B) \ 1 \quad (C) \quad \pi$$

(D)
$$\frac{\pi}{2}$$

$$9.\int_{-a}^{a} f(x)dx dx = 0$$
 if f is an _____ function

10.
$$\int_0^{\frac{\pi}{2}} \cos x \, e^{\sin x} dx$$
 is -----

(1) C (2) C (3) B (4) C (5) D (6) A (7) D (8) A (9) odd (10) e -1

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- Integrals
- Application Of Integrals
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- Three Dimensional Geometry
- <u>Linear Programming</u>
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CBSE vide Circular No.Acad-51/2021 dated 5th July, 2021, notified that in the session 2021-2022, Board Examinations would be conducted in two terms, i.e.. Term I and Term II. This decision was taken due to the uncertainty arising out of COVID 19 Pandemic. Term I...

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Inverse Trigonometric Function Class 12 Mathematics MCQ

Class 12 Mathematics students should refer to the following multiple-choice questions with answers for Inverse Trigonometric Function in standard 12. These MCQ questions with answers for Grade 12 Mathematics will come in exams and help you to score good marks

Inverse Trigonometric Function MCQ Questions Class 12 Mathematics with Answers

Question: If $\sin \{\sin^{-1} 1/2\} + \cos^{-1} x\} = 1$, then the value of x is

- a) 1/2
- b) 0
- c) 1
- d) None of these

Answer : 1/2

Question:

If $tan^{-1}x + tan^{-1}y + tan^{-1}z = \pi/2$, x,y,z >0, then the value of xy+yz+zx is

• a) 1

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- b) 0
- c) not defined
- d) None of these

Answer: 1

Question:

If $\sin^{-1}(1-x) - 2\sin^{-1}(x) = \frac{\pi}{2}$, then x is equal to

- a) 0
- b) 1/2
- c) 1, \frac{1}{2}
- d) $0,\frac{1}{2}$

Answer: 0

Question:

 $Cos^{-1}(cos(\frac{7\pi}{6}))$ is equal to

- a) <u>5π</u> 6
- b) $\frac{\pi}{6}$
- c) $\frac{\pi}{3}$
- d) $\frac{7\pi}{6}$

Answer:

$$\frac{5\pi}{6}$$

Question:

If $3sin^{-1}(\frac{2x}{1+x^2}) - 4cos^{-1}(\frac{1-x^2}{1+x^2}) + 2tan^{-1}\frac{2x}{1-x^2} = \frac{\pi}{3}$ then x is equal to

- a) 1/√3
- b) √3
- c) 1
- d) not defined

Answer : 1/√3

- <u>Application Of</u><u>Derivatives</u>
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Question: Which of the following is the principal value branch of $\cos^{-1} x$

- a) $[0,\pi]$
- b) $(0,\pi) \{\frac{\pi}{2}\}$
- c) $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
- d) $(0,\pi)$

Answer:

 $[0,\pi]$

Question:

If $3 \tan^{-1} x + \cot^{-1} x = \pi$, then x equals

- a) 1
- b) 1/2
- c) -1
- d) 0

Answer: 1

Question: The value of the expression $2 \sec^{-1} 2 + \sin^{-1} 1/2$ is

- a)
 <u>5π</u>
- b) π/6
- c) 1
- d) $\frac{7\pi}{6}$

Answer:

 $\frac{5\pi}{6}$

Question:

 $tan^{-1}x + tan^{-1}y = tan^{-1}\frac{x+y}{1-xy}$ is true for

- a) xy <1
- b) |x| < 1, |y| < 1
- c) |x|> 1, |y| > 1
- d) None of these

Answer: xy <1

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Question: $tan^{-1}\sqrt{3} - sec^{-1}(-2)$ is equal to

- a)
 - $-\frac{\pi}{3}$
- b)
 - $\frac{2\pi}{3}$
- c)
- d)
- π

Answer:

 $-\frac{\pi}{2}$

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Ministry of Education, Govt. of India vide D.O No. 12-4/2021-IS.4 dated 04.01.2022 intimated that 12 January 2022 will be celebrated as "National Youth

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CBSE vide Circular No.Acad-51/2021 dated 5th July, 2021, notified that in the session 2021-2022, Board Examinations would be conducted in two

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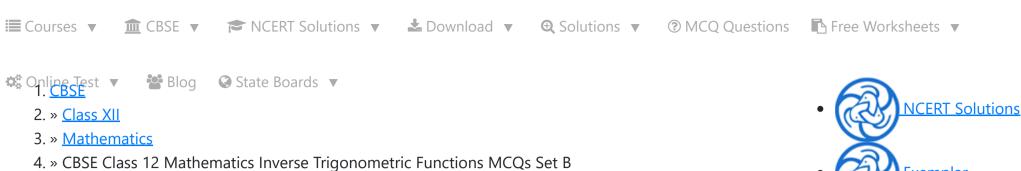
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- Matrices
- Determinants
- Continuity And Differentiability

MULTIPLE CHOICE QUESTIONS

- 1. If $\sin \{\sin^{-1}(\frac{1}{2}) + \cos^{-1}x\} = 1$, then the value of x is
 - (A) $\frac{\pi}{2}$ (B) 1 (C) 0

- 2. If $tan^{-1}x + tan^{-1}y + tan^{-1}z = \pi/2$, x,y,z >0, then the value of xy+yz+zx is
- (B) 1 (C) 0
- (D) not defined
- 3. If $sin^{-1}(1-x) 2 sin^{-1}(x) = \frac{\pi}{2}$, then x is equal to

- (A) $0,\frac{1}{2}$ (B) $1,\frac{1}{2}$ (C) 04. $Cos^{-1}(cos(\frac{7\pi}{6}))$ is equal to
 (A) $\frac{7\pi}{6}$ (B) $\frac{5\pi}{6}$ (C) $\frac{\pi}{6}$

- 5. If $3sin^{-1}(\frac{2x}{1+x^2}) 4cos^{-1}(\frac{1-x^2}{1+x^2}) + 2tan^{-1}\frac{2x}{1-x^2} = \frac{\pi}{3}$ then x is equal to (A) $\frac{1}{\sqrt{3}}$ (B) $\sqrt{3}$ (C) 1 (D) not defined

- 6. Which of the following is the principal value branch of $\cos^{-1}x$

- (A) $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$ (B) $(0,\pi)$ (C) $[0,\pi]$ (D) $(0,\pi) \left\{\frac{\pi}{2}\right\}$ 7. If $3 \tan^{-1}x + \cot^{-1}x = \pi$, then x equals
 - (A)0
- (B) -1 (C) 1
- (D) $\frac{1}{2}$
- 8. The value of the expression $2sec^{-1}2 + sin^{-1}(\frac{1}{2})$ is $(A)\frac{\pi}{6} \qquad (B)\frac{5\pi}{6} \qquad (C) \quad 1$ 9. $tan^{-1}x + tan^{-1}y = tan^{-1}\frac{x+y}{1-xy}$ is true for

- (D) $\frac{7\pi}{6}$
- - (A) $x, y \in R$ (B) IxI > 1, IyI > 1 (C) IxI < 1, IyI < 1
- (D) xy <1

- 10. $tan^{-1}\sqrt{3} sec^{-1}(-2)$ is equal to
 - (A) π
- (B) $\frac{\pi}{3}$ (C) $\frac{\pi}{3}$

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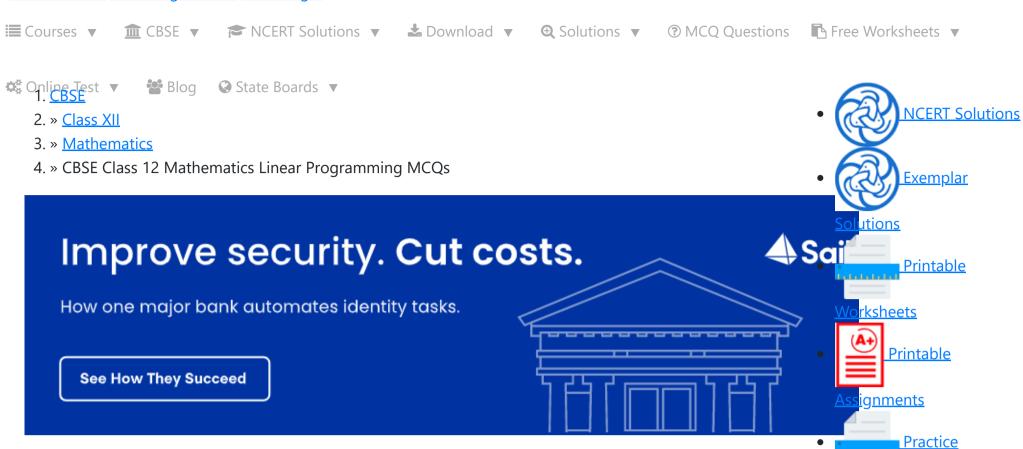
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Question: In maximization problem, optimal solution occurring at corner point yields the

- a) highest value of z
- b) lowest value of z
- c) mid values of z
- d) mean values of z

Answer: A

Question: In a LPP, the objective function is always

- a) Linear
- b) Quadratic
- c) Cubic
- d) Biquadratic

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Question: A feasible solution to a linear programming problem

- a) Must satisfy all of the problem's constraints simultaneously
- b) Need not satisfy all of the constraints, only the non-negativity constraints
- c) Must be a corner point of the feasible region
- d) Must give the maximum possible profit

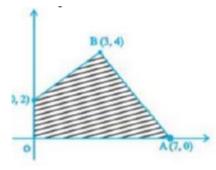
Answer: A

Question: The corner points of the bounded feasible region of a LPP are A(0,50), B(20, 40), C(50, 100) and D(0, 200) and the objective function is Z = x + 2y. Then the maximum value is

- a) 400
- b) 250
- c) 450
- d) 100

Answer: A

Question: The feasible region (shaded) for a L.P.P is shown in the figure. The maximum Z = 5x + 7y is



- a) 43
- b) 47
- c) 45
- d) 49

Answer: A

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Ministry of Education, Govt of India vide letter No. F.No. 12-5/2020-IS-4 dated 16.12.2021 has intimated that under the banner Azadi ka Amrit Mahotsav the National Yogasanasports Federation has decided to run a project of 750 million Surya Namaskar from 01 January 2022...

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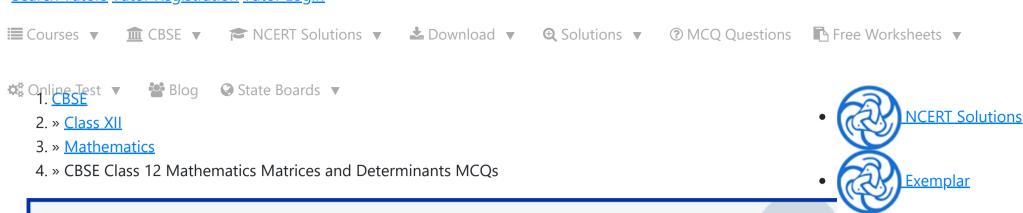
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Class 12 Mathematics students should refer to the following multiple-choice questions with answers for Matrices and Determinants in standard 12. These MCQ questions with answers for Grade 12 Mathematics will come in exams and help you to score good marks

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- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
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- <u>Determinants</u>
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- If A is a square matrix of order 3 with 1A1 = 4 then find 12A1
 - (a)12 (b) 32
- (c) 16
- (d) none of these
- If A is a square matrix of order 3 with ladjA 1 = 25 then find 1A1
- (b) ± 125
- (c) ± 5
- 3. If $A = \begin{bmatrix} \cos \alpha & \sin \alpha \\ -\sin \alpha & \cos \alpha \end{bmatrix}$, and A + A' = I then α is

 (a) π (b) $\frac{\pi}{3}$ (c) $\frac{\pi}{6}$ (d) $\frac{\pi}{2}$

- 4. If $\begin{vmatrix} 2x & 5 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 6 & -2 \\ 7 & 3 \end{vmatrix}$ then value of x is
- (a) 3 (b) ± 6 (c) 8 (d) -2The total number of possible matrices of order 3x3 with each entry 2 or 1 is (a) 27 (b) 18 (c) 81 (d) 512
- 6. If A is a square matrix such that $A^2 = I$ then $(A-I)^3 + (A+I)^3 7A$ is equal
 - (a) A (b) I (c) 3A (d) I-A
- 7. If area of a triangle is 35 squre units with vertices (2,-6),(5,4) and (k,4), then k is (a) 12 (b) -2 (c) -12,-2 (d) 12,-2
- 8. If A is a square matrix of order 3, and |A| = 4 then |adjA|
 - (a) 4
- (b) 12 h
- (c) 16
- (d) 64
- Let A be a 5X7 matrix, then each column of A contains
 - (a) 7elements (b) 5 elements (c) 35 elements (d) none of these
- 10. If A is any square matrix of order n, then A(adjA) is equal to (a) |A|I (b) I (c) 0 (d) none of these
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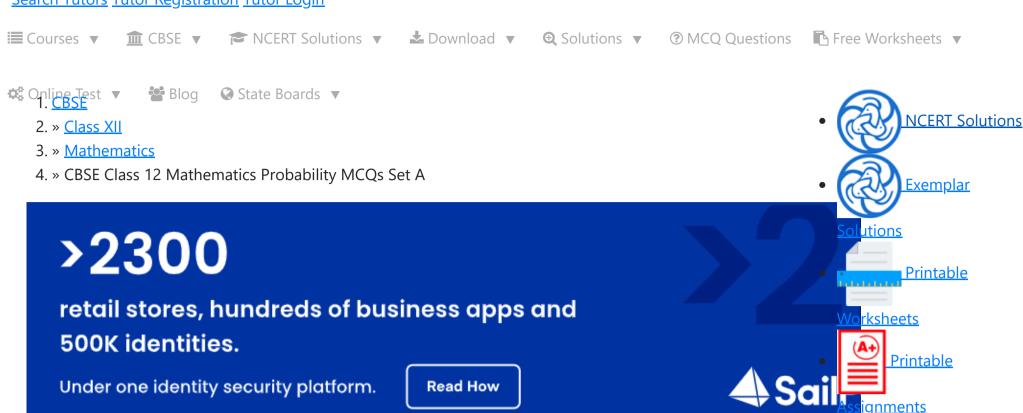
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CBSE Class 12 Mathematics Probability MCQs Set A

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MCQ Questions for Class 12 Mathematics with answers have been prepared as per the latest syllabus, NCERT books and examination pattern suggested in Standard 12 by CBSE, NCERT and KVS. Multiple Choice Questions are an important part of Term 1 and Term 2 exams for Grade 12 Mathematics and if practiced properly can help you to get higher marks. Refer to more Chapter-wise MCQs for NCERT Class 12 Mathematics and also download more latest study material for all subjects

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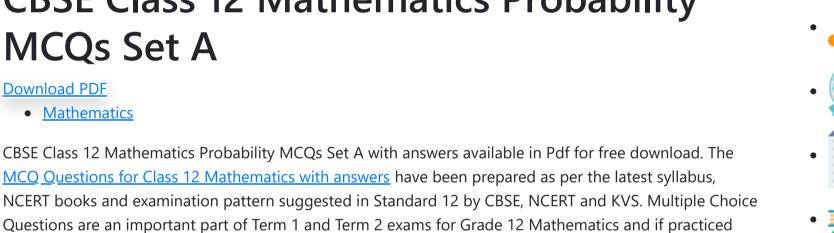
Question: If a fair die is rolling. The events are $E=\{1,3,6\}$, $F=\{4,6\}$. Then the probability P(E/F) is

- b) 2/3
- c) 1/6
- d) None of these

Answer: A

Question: Let A and B are two events. If P(A)=0.2 p(B)=0.4, $P(A \cup B) = 0.6$, then P(A/B) is equal to

- a) 0
- b) 0.3
- c) 0.5
- d) 0.8



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- Relations and Functions
- Inverse Trigonometric <u>Functions</u>
- Matrices
- Determinants
- Continuity And **Differentiability**

Answer: A

Question: Let A and B be two events such that P(A)=0.6, P(B)=0.2 and P(A/B)=0.5, then P(A'/B') equals

- a) 3/8
- b) 3/10
- c) 1/10
- d) 6/7

Answer: A

Question: Two numbers are chosen from {1,2,3,4,5,6} one after the other without replacement. The probability that one of the smaller values is less than 4 is

- a) 4/5
- b) 1/15
- c) 1/5
- d) 14/15

Answer: A

Question: The probability of a student getting 1,2,3 division in an examination are 1/10, 3/5 and 1/4 respectively. The probability that the student fails in the examination is

- a) 27/100
- b) 83/100
- c) None of these
- d) 197/200

Answer: A

Question: A speaks truth in 75% cases and B speaks truth in 80% cases. The probability that they contradict each other in a statement is

- a) 7/20
- b) 13/20
- c) 3/5
- d) 2/5

Answer: A

Question: The probability that a leap year will have 53 fridays or 53 saturdays

- a) 3/7
- b) 4/7
- c) 1/7
- d) 2/7

Answer: A

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- Application Of Integrals
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Question: A person writes 4 letters and addresses 4 envelopes. If the letters are placed in the envelopes at random, then the probability that all letters are not placed in the right envelopes, is

- a) 23/24
- b) 15/24
- c) 11/24
- d) 1/4

Answer: A

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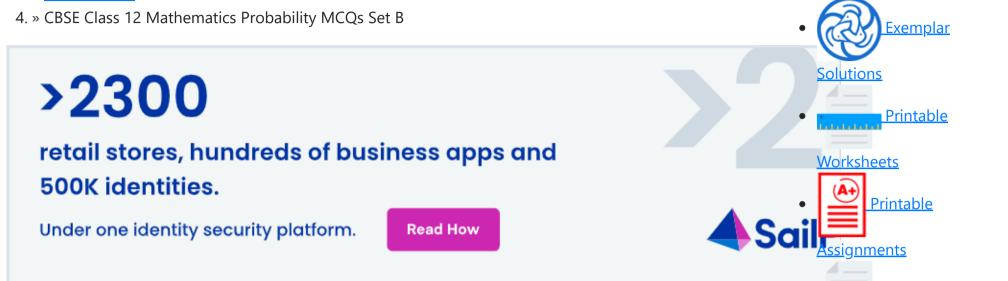
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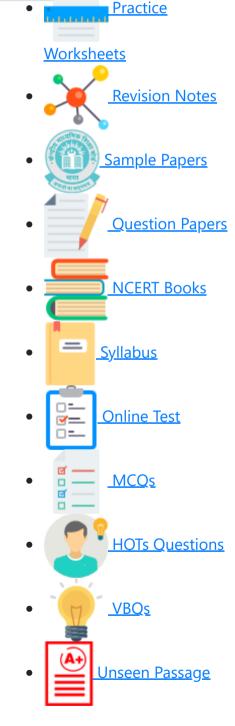
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- Relations and Functions
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C. 83 D. None of these A speaks truth in 75% cases and B speaks truth in 80% cases. The probability that

they contradict each other in a statement is

B. $\frac{13}{-}$ The probability that a leap year will have 53 fridays or 53 saturdays. A. 2/7 C. 4/7 B. 3/7

A person writes 4 letters and addresses 4 envelopes. If the letters are placed in the envelopes at random, then the probability that all letters are not placed in the right envelopes, is

B.11/24 C.15/24 A. 1/4 D.23/24

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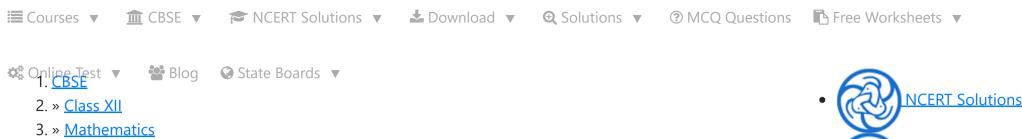
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Class 12 Relations and Functions MCQ Questions with Answers

Question: Let T be the set of all triangles in the Euclidean plane, and let a relation R on T be defined as aRb if a is congruent to b, $a,b \in T$. Then R is

- a) equivalence
- b) reflexive but not transitive
- c) transitive but not symmetric
- d) none of these

Answer: A

Question : If a relation R on the set $\{1,2,3\}$ be defined by $R = \{(1,2)\}$ then R is

• a) transitive

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<u>Unseen Passage</u>

- <u>Inverse Trigonometric</u> <u>Functions</u>
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- Continuity And Differentiability

- b) none of these
- c) reflexive
- d) symmetric

Answer: A

Question: If f: $R \rightarrow R$ given by $f(x) = (3 - x^3)^{1/3}$, find f(0)

- a) x
- b) $(3-x^3)$
- c) x³
- d) None of these

Answer: A

Question: Let $A = \{1,2,3\}$. The number of equivalence relations containing (1,2) is

- a) 2
- b) 3
- c) 4
- d) None of these

Answer: A

Question: Let $f:R \to R$ defined by $f(x) = x^4$. Choose the correct answer

- a) f is neither one-one nor onto
- b) f is oneone but not onto
- c) f is many one onto
- d) None of these

Answer: A

Question : Let $f:R \rightarrow R$ defined by f(x) = 3x. Choose the correct answer

- a) f is one one onto
- b) f is many one onto
- c) f is one-one but not onto
- d) f is neither one-one nor onto

Answer: A

Question: If $A = \{1,2,3\}$, $B = \{4,6,9\}$ and R is a relation from A to B defined by 'x is smaller than y'. The range of R is

- a) {4,6,9}
- b) {1}
- c) none of these
- d) {1, 4,6,9}

Answer: A

Question: The relation $R = \{ (1,1),(2,2),(3,3) \}$ on $\{1,2,3\}$ is

- a) an equivalence relation
- b) transitive only
- c) reflexive only
- d) None of these

Answer: A

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Question : Let A = $\{1,2,3\}$ and consider the relation R= $\{(1,1),(2,2),(3,3),(1,2),(2,3),(1,3)\}$ then R is

- a) reflexive but not symmetric
- b) symmetric and transitive
- c) reflexive but not transitive
- d) neither symmetric nor transitive

Answer: A

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Question: Let us define a relation R in R as a Rb if a≥b. Then R is

- a) reflexive, transitive but not symmetric
- b) neither transitive nor reflexive but
- c) an equivalence relation
- d) symmetric ,transitive but not reflexive

Answer: A

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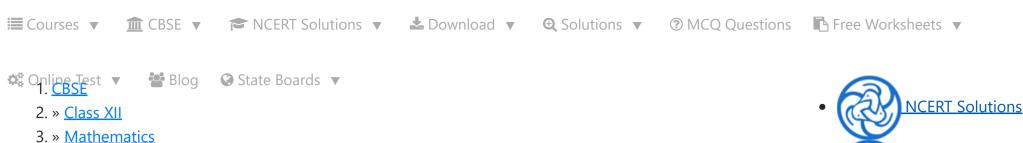
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Class 12 Relations and Functions MCQ Questions with Answers



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- Relations and Functions
- <u>Inverse Trigonometric</u> <u>Functions</u>
- Matrices
- Determinants
- Continuity And Differentiability

RELATIONS AND FUNCTIONS MULTIPLE CHOICE QUESTIONS

- 1. Let T be the set of all triangles in the Euclidean plane, and let a relation R on T be defined as aRb if a is congruent to b, a,b∈ T.Then R is
 - (A) reflexive but not transitive
- (B) transitive but not symmetric
- (C) equivalence 2. If a relation R on the set {1,2,3}be defined by R={(1,2)} then R is
 - (D) none of these
- (A) reflexive

(C) symmetric

- (B) transitive (D) none of these
- 3. If f: R o R given by $f(x) = (3 x^3)^{\frac{5}{3}}$, find f(0)(A) $x^{1/3}$ (B) x^3 (C) x (D) $(3-x^3)$
- 4. Let $A = \{1,2,3\}$. The number of equivalence relations containing (1,2) is (A) 1 (B) 2 (C) 3 (D) 4
- 5. Let $f: R \rightarrow R$ defined by $f(x) = x^4$. Choose the correct answer
 - (A) f is one one onto (B) f is many one onto (C) f is one one but not onto
 - (D) f is neither one-one nor onto
- 6. Let $f:R \rightarrow R$ defined by f(x) = 3x. Choose the correct answer
 - (A) f is one one onto (B) f is many one onto (C) f is one-one but not onto
 - (D) f is neither one-one nor onto
- 7. If $A = \{1,2,3\}$, $B = \{4,6,9\}$ and R is a relation from A to B defined by 'x is smaller than y'. range of R is
 - (A) {1,4,6,9} (B) {4,6,9} (C) {1} (D) none of these
- 8. The relation $R = \{ (1,1),(2,2),(3,3) \}$ on $\{1,2,3\}$ is
 - (A) symmetric only (B) reflexive only (C) transitive only (D) an equivalence relation
- 9. Let $A = \{1,2,3\}$ and consider the relation $R = \{(1,1),(2,2),(3,3),(1,2),(2,3),(1,3)\}$ then R is (A) reflexive but not symmetric (B) reflexive but not transitive (D)neither symmetric nor transitive (C)symmetric and transitive
- Let us define a relation R in R as a Rb if a≥b . Then R is
 - (A) an equivalence relation. (B) reflexive, transitive but not symmetric
 - (C) symmetric ,transitive but not reflexive (C) neither transitive nor reflexive but symmetric

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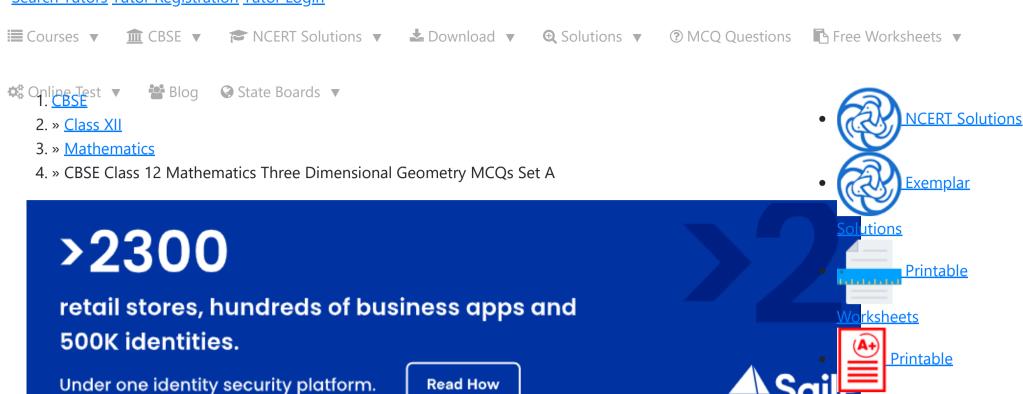
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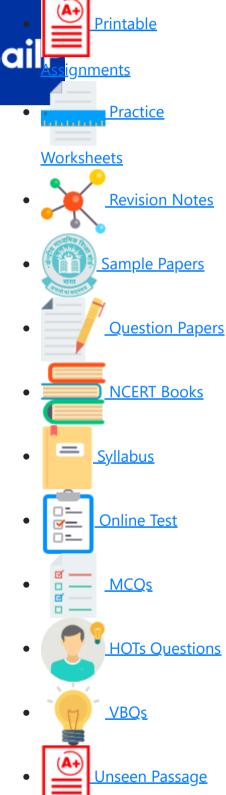
Question : If a line makes angles 90°, 60° and θ with x, y and z axes respectively, where θ is acute then the value of θ is

- a) 30
- b) 60
- c) 90
- d) 45

Answer: A

Question: The distance between the planes 2x + 2y - z + 2 = 0 and 4x + 4y - 2z + s = 0 is

• a) 1/6



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- b) 1
- c) 1/4
- d) 1/2

Answer: A

Question: The acute angle between the planes 2x - y + z = 6 and x+y+2z = 3 is

- a) 60
- b) 30
- c) 75
- d) 45

Answer: A

Question : If a line makes angles α , β , γ with the axes then $cos2\alpha + cos2\beta + cos2\gamma$ is equal to

- a) 1
- b) 1
- c) 2
- d) 2

Answer: A

Question:

The angle between the line $\vec{r} = 2\hat{\imath} - \hat{\jmath} + \hat{k} + \lambda(-\hat{\imath} + \hat{\jmath} + \hat{k})$ and the plane $(3\hat{\imath} + 2\hat{\jmath} - \hat{k}) \cdot \vec{r} = 4$

- a) $\sin^{-1}(-2/\sqrt{42})$
- b) $\sin^{-1}(2/\sqrt{42})$
- c) $\cos^{-1}(2/\sqrt{42})$
- d) None of these

Answer: A

Question: If the lines x-2/1 = y-2/1 = z-4/k and x-1/k = y-4/2 = z-5/1 are coplanar, then k can have

- a) Exactly two values
- b) Exactly three values
- c) Exactly one value
- d) Any value

Answer: A

Question: The equation of the plane which cuts equal intercepts of unit length on the coordinate axes is

- a) x + y + z = 1
- b) x + y + z = 0
- c) x + y z = 1
- d) x + y + z = 2

Answer: A

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Question: If the lines x-1/2 = y+1/3 = z-1/4 and x-3/1 = y-k/2 = z/1 intersect at a point, then the value of k is

- a) 9/2
- b) 2/9
- c) 2
- d) 3/2

Answer: A

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Question: The direction cosines of the normal to the plane x + 2y - 3z - 4 = 0 are

- a) 1/√14, 2/√14, 3/√14,
- b) -1/√14, 2/√14, 3/√14,
- c) -1/√14, -2/√14, 3/√14,
- d) $-1/\sqrt{14}$, $-2/\sqrt{14}$, $-3/\sqrt{14}$,

Answer: A

Question: The angle between two diagonals of a cube is

- o a) $cos^{-1}\frac{1}{3}$
- b) $cos^{-1}\frac{1}{9}$
- $\cos^{-1}\frac{\sqrt{3}}{2}$
- d) $cos^{-1}\frac{1}{\sqrt{3}}$

Answer : A

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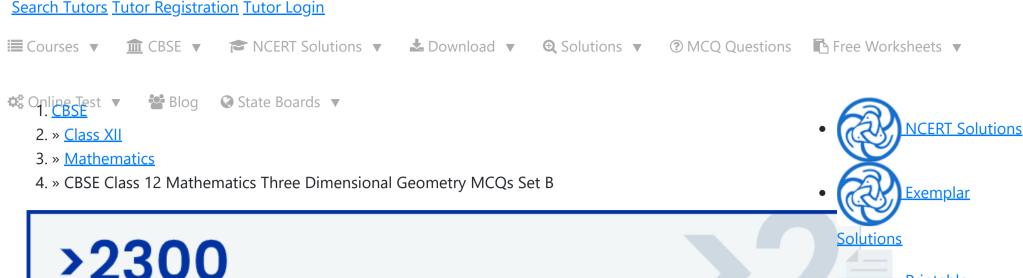
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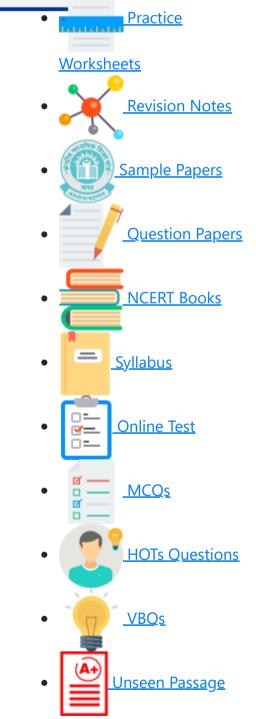
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Three Dimensional Geometry Class 12 MCQ

Class 12 Mathematics students should refer to the following multiple-choice questions with answers for Three Dimensional Geometry in standard 12. These MCQ questions with answers for Grade 12 Mathematics will come in exams and help you to score good marks

Class 12 Three Dimensional Geometry MCQ Questions with Answers



Chapters

- Relations and Functions
- Inverse Trigonometric **Functions**
- Matrices
- Determinants
- Continuity And **Differentiability**

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3 DIMENSIONAL GEOMETRY MULTIPLE CHOICE QUESTIONS

1. If a line makes angles 90^0 , 60^0 and θ with x, y and z axes respectively, where θ is acute then the value of θ is

 $[(A) 30^{0} (B) 60^{0} (C) 90^{0} (D) 45^{0}]$

- 2. The distance between the planes 2x + 2y z + 2 = 0 and 4x + 4y 2z + s = 0 is $[(A) \frac{1}{2} (B) \frac{1}{4} (C) \frac{1}{6} (D) 1]$
- 3. The acute angle between the planes 2x y + z = 6 and x + y + 2z = 3 is [(A) 45° (B) 60° (C) 30° (D) 75°
- If a line makes angles α,β, γ with the axes then cos2α + cos2β+cos2γ is equal to
 [(A) -2 (B) -1 (C) 1 (D) 2]
- 5. The angle between the line $\vec{r} = 2\hat{\imath} \hat{\jmath} + \hat{k} + \lambda(-\hat{\imath} + \hat{\jmath} + \hat{k})$ and the plane $(3\hat{\imath} + 2\hat{\jmath} \hat{k}) \cdot \vec{r} = 4$
- [(A) $cos^{-1}(\frac{2}{\sqrt{42}})$. (B) $cos^{-1}(\frac{-2}{\sqrt{42}})$ (C) $sin^{-1}(\frac{2}{\sqrt{42}})$ (D) $sin^{-1}(\frac{-2}{\sqrt{42}})$ [6. If the lines $\frac{x-2}{1} = \frac{y-2}{1} = \frac{z-4}{k}$ and $\frac{x-1}{k} = \frac{y-4}{2} = \frac{z-5}{1}$ are coplanar, then k can have [(A) Any value (B) Exactly one value (C) Exactly two values (D) Exactly
- three values]7. The equation of the plane which cuts equal intercepts of unit length on the coordinate axes is
 - [(A) x + y + z = 1 (B) x + y + z = 0 (C) x + y z = 1 (D) x + y + z = 2]
- 8. If the lines $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z-1}{4}$ and $\frac{x-3}{1} = \frac{y-k}{2} = \frac{z}{1}$ intersect at a point, then the value of k is

[(A) $\frac{3}{2}$ (B) $\frac{9}{2}$ (C) $\frac{2}{9}$ (D) 2]

- 9. The direction cosines of the normal to the plane x + 2y 3z 4 = 0 are $(A) \frac{-1}{\sqrt{14'}}, \frac{-2}{\sqrt{14'}}, \frac{3}{\sqrt{14'}})$ $(B) \frac{1}{\sqrt{14'}}, \frac{2}{\sqrt{14'}}, \frac{3}{\sqrt{14'}})$ $(C) \frac{-1}{\sqrt{14'}}, \frac{2}{\sqrt{14'}}, \frac{3}{\sqrt{14'}})$ $(D) \frac{1}{\sqrt{14'}}, \frac{2}{\sqrt{14'}}, \frac{3}{\sqrt{14'}})$
- 10. The angle between two diagonals of a cube is

[(A) $cos^{-1}\frac{1}{\sqrt{3}}$ (B) $cos^{-1}\frac{1}{3}$ (C) $cos^{-1}\frac{1}{9}$ (D) $cos^{-1}\frac{\sqrt{3}}{2}$]

<u>Answers :</u>

]

- 1. A
- 2. C
- 3. B
- 4. B 5. D
- 6. C
- 7. A
- 8. B 9. D
- 10. B

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□ Chapter 2 Inverse Trigonometric Functions

- <u>Application Of</u>
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- Differentials Equation
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Ministry of Education, Govt. of India vide D.O No. 12-4/2021-IS.4 dated 04.01.2022 intimated that 12

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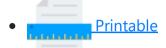
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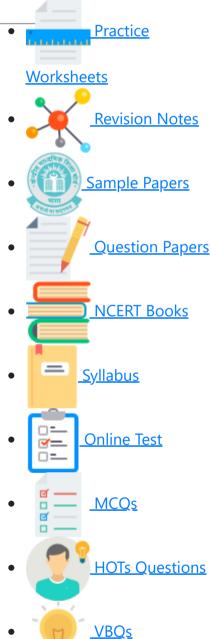
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Class 12 Vectors Algebra MCQ Questions with Answers



Chapters

• Relations and Functions

<u>Unseen Passage</u>

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- Matrices
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- Continuity And
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VECTOR ALGEBRA OBJECTIVE TYPE QUESTIONS

1. A vector equally inclined to axes is

a) $\hat{i} + \hat{j} + \hat{k}$ b)) $\hat{i} - \hat{j} - \hat{k}$ c)) $\hat{i} - \hat{j} + \hat{k}$ d) $- \hat{i} + \hat{j} + \hat{k}$

- 2. If the vectors are equal then their magnitudes are equal but the converse may not be true. State true or false
- 3. If $\vec{a} = \hat{i} + 2\hat{j} \hat{k}$, $\vec{b} = 3\hat{i} + \hat{j} 5\hat{k}$. Find a unit vector in the direction of
- 4. For what value of "a" the vectors) $2 \hat{i}-3 \hat{j}+4 \hat{k}$ and $a \hat{i}+6 \hat{j}-8 \hat{k}$ are collinear
- 5. If $|\vec{a}| = 5$, $|\vec{b}| = 13$, $|\vec{a} \times \vec{b}| = 25$ find $|\vec{a}| = 15$
- 6. Find the projection of the vector $\hat{i} + 3\hat{j} + 7\hat{k}$ on the vector $7\hat{i} \hat{j} + 8\hat{k}$
- 7. Find the area of a parallelogram whose adjacent sides are given by the vectors $\vec{a}=3\hat{\imath}+$ $\hat{j} + 4\hat{k}$ and $\hat{b} = \hat{i} - \hat{j} + \hat{k}$
- 8. For what value of p the vectors $\vec{a} = 2\hat{i} + p\hat{j} + \hat{k}$ and $\hat{i} 2\hat{j} + 3\hat{k}$ are perpendicular to each other

a) 5 b) -2 c)
$$\frac{5}{2}$$
 d) 3

- 9. If $|\vec{a}| = 4$ and $-3 \le \lambda \le 2$ then the range of $|\lambda \vec{a}|$ is
 - a) [0,8] b) [-12,8] c) [0,12] d) [8,12]
- 10. If $\vec{a} = \hat{i} + \hat{j}$; $\vec{b} = \hat{j} + \hat{k}$; $\vec{c} = \hat{k} + \hat{i}$, find a unit vector in the direction of $2\vec{a} + \vec{b} + \vec{c}$.

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