

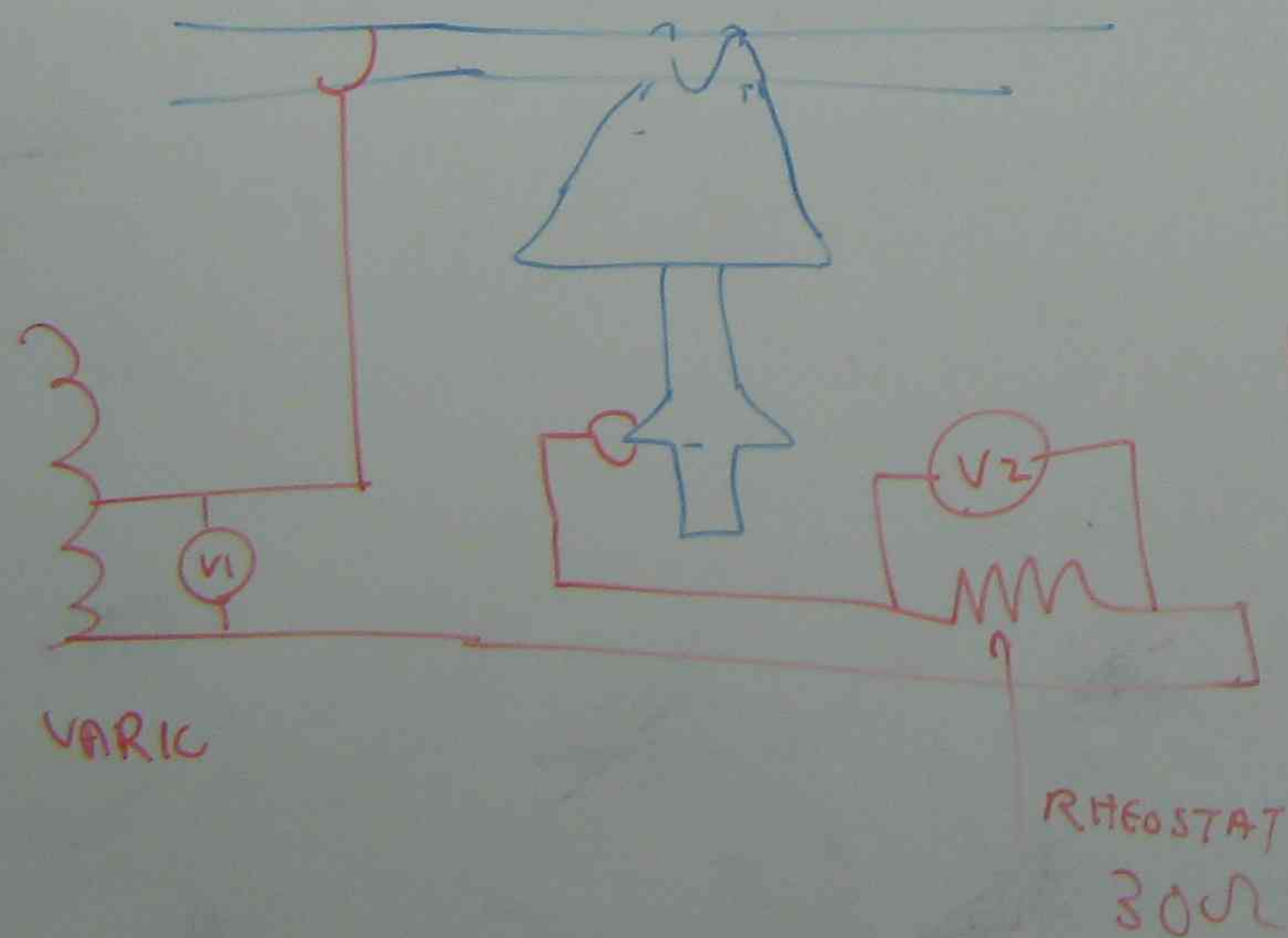
ap = 18 chairs desks



TRANSMISSION LINE PRACTICAL

① LINE INSULATOR TEST

(1) CONNECT THE GIVEN CIRCUIT



(2) INJECT V_1 80V

(3) MEASURE V_2

(4) CALCULATE $I = \frac{V_2}{\text{RHEOSTAT RESISTANCE (30Ω)}}$

$$(5) X_c = \frac{V_1 - V_2}{I}$$

$$(6) C_{80V} = \frac{1}{2\pi f X_c}$$

WHERE $f = 50 \text{ Hz}$

REPEAT THE ABOVE STEP FOR 90V & 100V

$$C = \frac{C_{80V} + C_{90V} + C_{100V}}{3} \text{ F}$$

(7) THEN SWITCH OFF THE SUPPLY & OBSERVE WHAT HAPPENS TO V_1