

applying current division to find award through

$$I_{R}'$$
 $I_{R}' = 0.267 \times 14$ 

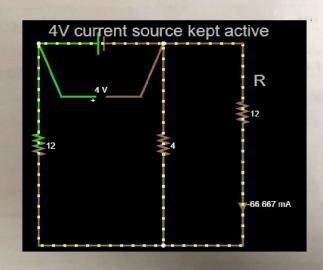
$$= 0.267$$

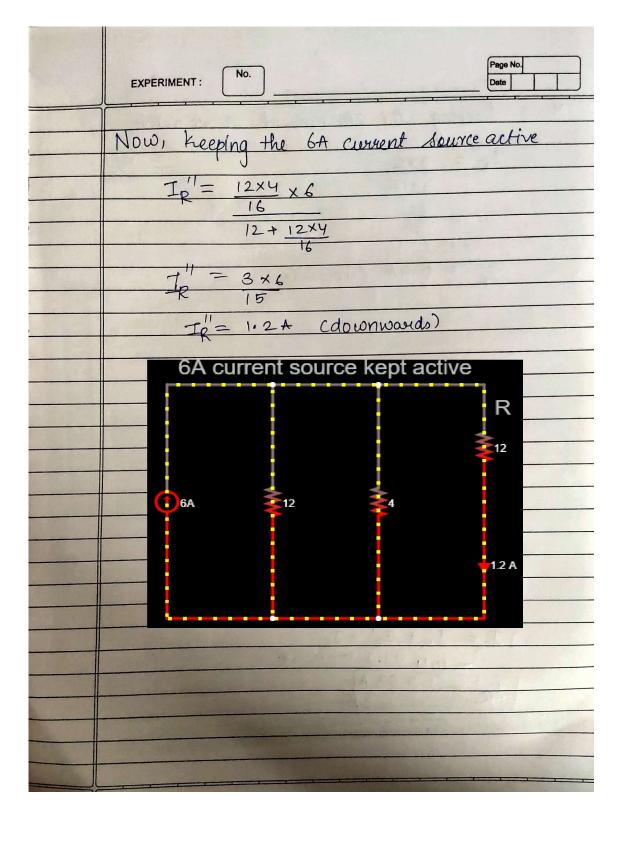
$$= 0.267$$

$$I_{R}' = 0.067$$

$$= 0.0674$$

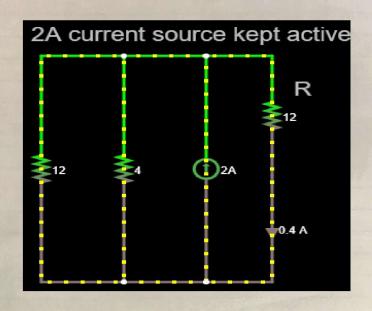
$$I_{R}' = 67 \text{ mA (upwaud)}$$





Now keeping the 2A current source active.  $I_{R}^{""} = \frac{3\times2}{3+12}$   $= \frac{6}{15}$ 

IR = 0.4A Cupwards



$$I_R = I_R + I_R'' + I_R''$$
= 0.4 +1.2 - 0.067 (Consider upwarders negative)
 $I_R = 1.533 \text{ A}$ 

\*We see that this value of IR matches with simulation.
Thus Superposition principle is verified.