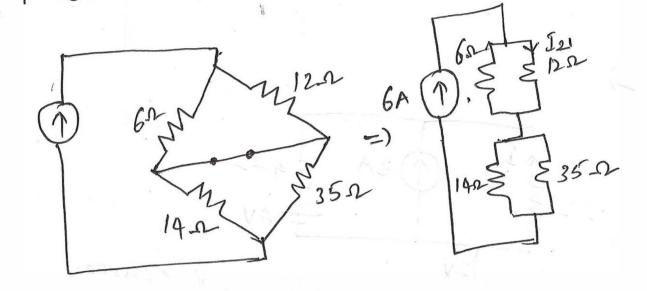
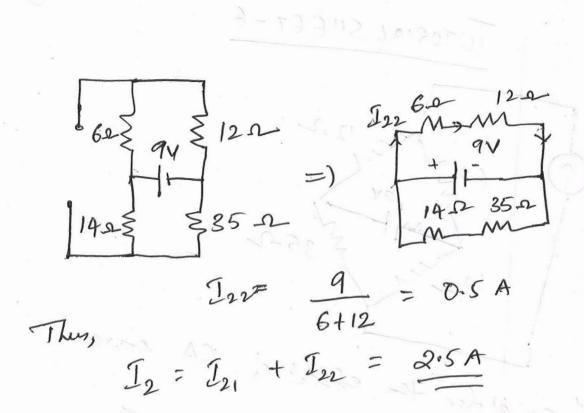


1st consider the effect of GA source.

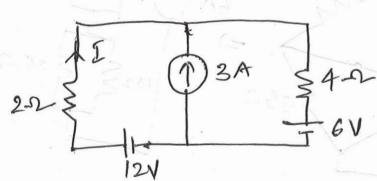


 $I_{24} = \frac{6A \times 6 \cdot 1}{(6 \cdot 12 \cdot 12 \cdot 1)} = 2A$

Consider the effect of 9V Source. Re-drawing the Circuit,



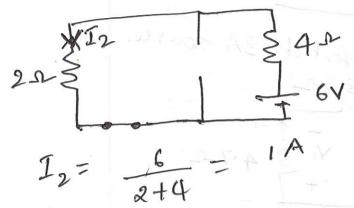
2)



Consider the effect of 12 V Source. Re-drawing the circuit.

$$22\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{$

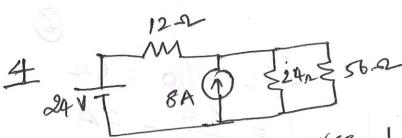
Consider the effect of GV source:



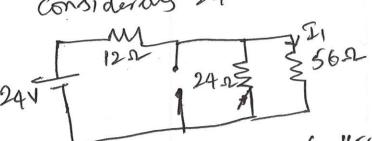
Consider the effect of 3A source

3A P \$ 4.2 The total current through 2 or resistorin I = I1+ I2+ I3 -- 2+1 + 2 = 1A (: I is in Opposite di rection to I and Is)

Considering the effect of 3A source, 2.4 × 3A = 0.69 A 2.4 + (4.7 + '3.3) V1= 4.7 x 0.69 = 3.25 v P= 2.24 W considering the effect of 124 source $\frac{12 \times 4.72}{\sqrt{2}} = \frac{12 \times 4.7}{4.7 + 2.4 + 3.3}$ $V_{2} = \frac{5.58 \text{ V}}{P_{2}} = \frac{6.51 \text{ W}}{6.51 \text{ W}}$ $V_{3} = \frac{5.58 \text{ V}}{P_{2}} = \frac{6.51 \text{ W}}{(\text{V/R})}$ P= Y2 = (2.28) -1.106 W P, +P2 + P

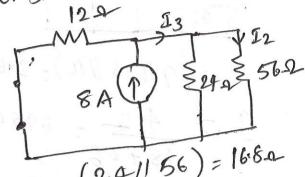


Considering 244 source



$$I_{1} = \frac{0.833 \, \text{A}}{29 + 51} = 0.25 \, \text{A}$$

Considering 8A source

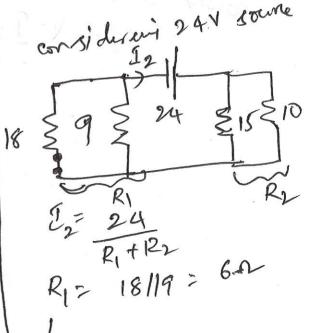


$$I_{3} = \frac{8 \times 12}{12 + 16.8} = 3.33A$$

$$I_{2} = \frac{3.33 \times 24}{24 + 56} = 1A$$

\$152 \$ 10.0

considering 42 V source 182 1525 \$ 10 A



R2 = 15/10 = 6-2

i barres as

Power delivered by the source is
$$P=V\cdot I=24\times3.17=76.08\,W$$