

R1=272 R2=252

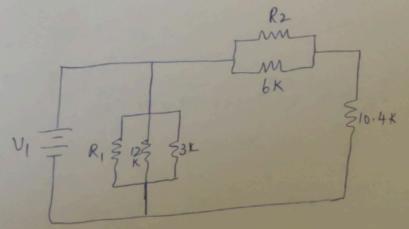
R3=432 R4=332

Reg = Ry 11 Rz 11 R3 (R, not Considered due to short circuit)

= 33 1125 1143

= 33 11 15.8

Reg = 10.682



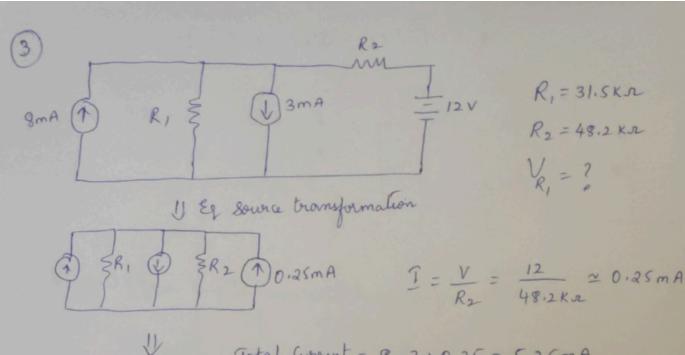
V1 = 5.6V

R, = 3.3KA

R2 = 14.6Ks

Voltage a cross 3 Kr resistor = V, (°° 3 K 11 12 K 11 R1
en parallel to
Voltage source)

2 V3K2 = V1 = 5.6V



Total Current = 8-3+0.25 = 5.25mA

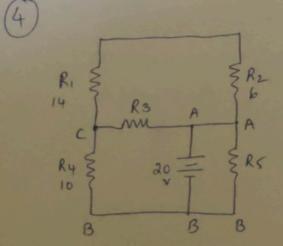
$$\frac{1}{R_{1}} = \frac{5.25 \times R_{2}}{R_{1} + R_{2}} = \frac{5.25 \times 48.2 \times n}{79.7 \times n}$$

$$= \frac{253.05}{79.7 \times n}$$

= 3.175 mA

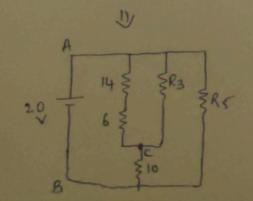
$$V_{R_1} = I_{R_1} \times R_1 = 3i175 \text{ mA} \times 31.5 \text{ KD}$$

$$V_{R_1} = 100.01 \text{ V}$$

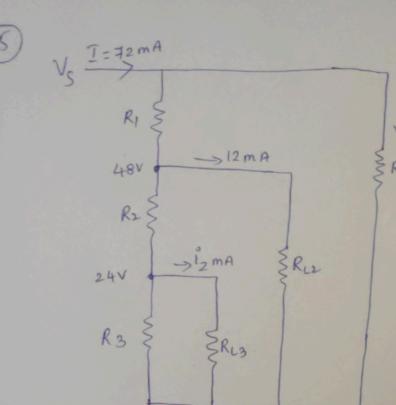


$$R_3 = 9.3 \text{ }$$

 $R_5 = 8.5 \text{ }$
 $R_{AB} = ?$



142 series 62 = 202 20111R3 = 20119.3 = 6.3481 6.3482 series 102 = 16.3482 16.3482 parallel RT = 16.348118.5 = 5.592 RAB = 5.5912



$$i_{R_1} = 72mA - i_1 = 72 - 7.9 = 64.1 mA$$
 $i_{R_2} = 64.1 mA - 12mA = 52.1 mA$
 $i_{R_3} = 52.1 mA - i_2 = 52.1 - 12.6 = 39.5 mA$.

Current through resistor $R_3 = 39.5 mA$.