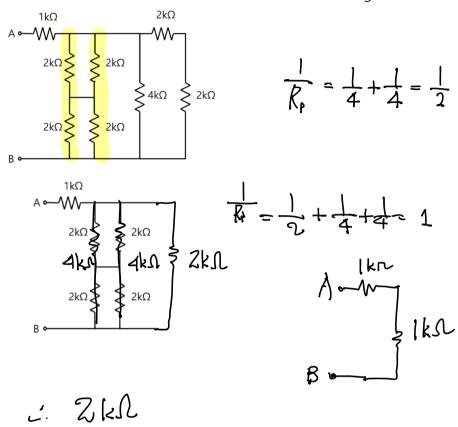
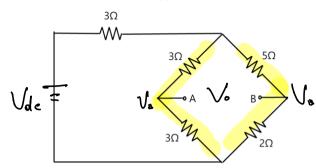
1. Find the resistance between terminals A-B in the following circuit.

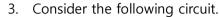


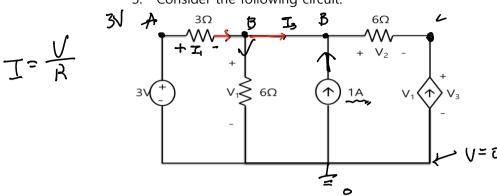
2. Find the resistance between terminals A-B in the following circuit.



$$\frac{1}{6} + \frac{1}{9} = \frac{13}{42}$$

$$V_{dc} \times \frac{\frac{42}{13}}{\frac{43}{13} + 3} = V_{dc} \cdot \frac{\frac{41}{25}}{\frac{81}{15}} = V_{dc} \cdot \frac{41}{25} = V_{dc} \cdot \frac{14}{25} = V_{dc} \cdot \frac{14}{25$$





(a) Find V_1 and V_2 .

$$\frac{\sqrt{8}}{\sqrt{1-3}} + \frac{\sqrt{1}}{6} - 1 + \frac{\sqrt{2}}{6} = 0$$

$$= 6 \sqrt{1+\sqrt{2}} = 0$$

$$\frac{\sqrt{c-\sqrt{b}}}{6}$$

$$\frac{-\sqrt{c}}{6} - \sqrt{c} = 0$$

$$\sqrt{c} + 6\sqrt{c} = 0$$

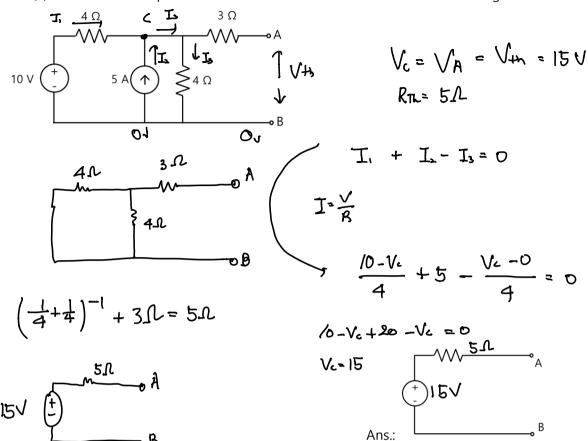
(b) Find V_3 and the power absorbed or supplied by the dependent current source. (If P<0, the power is supplied. If P>0, the power is absorbed)

$$\sqrt{1-\sqrt{3}} = \sqrt{3}$$
 $-4\sqrt{-24}\sqrt{3} = \sqrt{3}$
 $-28\sqrt{3} = \sqrt{3}$

Power absorbed.



4. (a) Find Thevenin equivalent circuit between terminals A-B of the following circuit.



(a) Find Norton equivalent circuit between terminals A-B of the following circuit.

