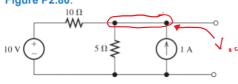
Sunday, October 18, 2020

-Alex Basleins

*P2.80. Find the Thévenin and Norton equivalent circuits for the two-terminal circuit shown in



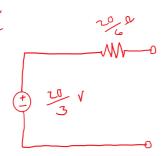
invalent circuits for the two-terminal circuit shown in
$$\sqrt{\frac{10}{10} + \frac{10}{5}}$$

$$I_{sc} = \frac{10}{10} + \left[I_{sc} = I_{sc} + I_{sc} \right]$$

$$I_{sc} = I_{sc} + I_{sc}$$

$$\frac{\sqrt{0c}}{10} + \frac{\sqrt{0c}}{5} = \frac{7}{2}$$
 $\frac{3\sqrt{0c}}{10} = \frac{7}{2}$; $\sqrt{0c} = \frac{70}{3}$ V.

Thélenin:





P2.88. Find the Thévenin and Norton equivalent circuits for the circuit shown in Figure P2.88.

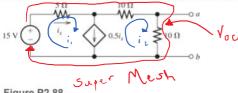
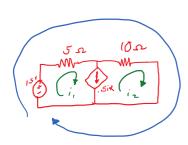


Figure P2.88



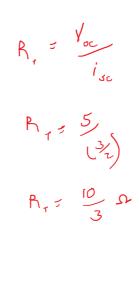


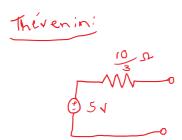
$$5i_{x} + 10i_{z} = 15; i_{x} = i_{x}$$

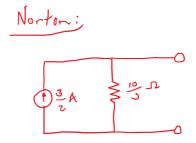
$$.5i_{x} = i_{x} - i_{z}$$

$$V = iR$$
 $V = \frac{1}{2}(10)$
 $V_{oc} = 5 V$

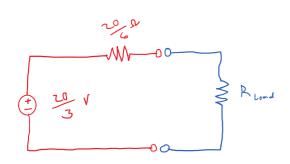
$$5i_{x} + 5i_{x} = 15$$
 $i_{x} = 3$
 $i_{x} = 3$
 $i_{z} = 3$
 i_{z}







P2.89. Find the maximum power that can be delivered to a resistive load by the circuit shown in Figure P2.80. For what value of load resistance is the power maximum?



For Maximum power, Rr = Road.

Rund = 20 sa