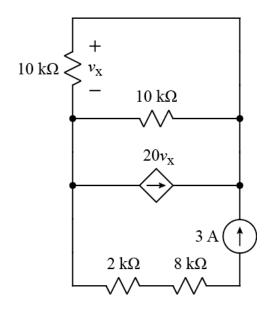


Ex:



Calculate the power dissipated by the dependent current source, (labeled  $20v_x$ ).

## SOL'N:

Using node-voltage:  

$$+3 + 20V_x + \frac{V_1}{10k} + \frac{V_1}{10k} = 0$$
  
 $V_1 = V_x$   
 $V_1 = \frac{-3(10k)}{20(10k) + 2} = \frac{-3(10k)}{20(10k) + 2} = \frac{-3(450m)^2}{450mW}$   
positive means absorbing power