

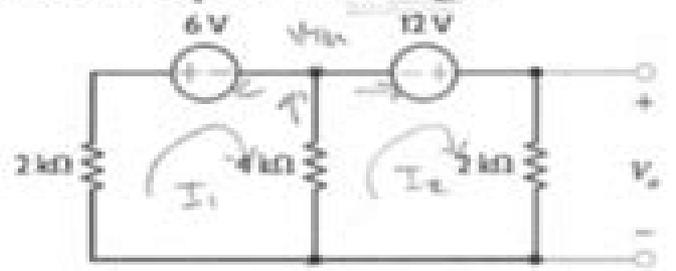
~~Rya~~ Cotto

Handwritten signature

EEL3111 | Circuit Analysis I | Test #2

Solve all the problems.

1. (10 points) Find the Thévenin equivalent resistance of the circuit below. Find also the Thévenin equivalent voltage.



$R_{th} = \frac{(2)(4)}{2+4} = \frac{8}{6}$

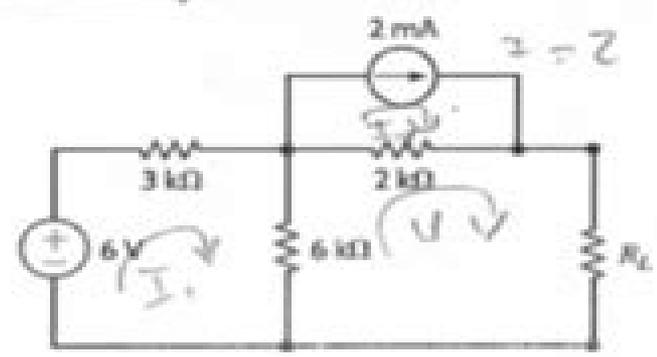
$R_{th} = \frac{(\frac{4}{3})(2)}{\frac{2}{3} + 2} = \frac{8}{8} = 1 \text{ k}\Omega$

$-2I_1 - 6 - 4(I_1 - I_2) = 0$
 $-4(I_2 - I_1) + 12 = 0$

$-6 - 6I_1 + 4I_2 = 0$
 $-6I_1 + 4I_2 = 6$

$1I_1 + 4I_2 + 12 = 0$

2. (10 points) Find R_L such that it draws maximum power from the circuit below.



$R_L = \frac{(3)(6)}{3+6} = 2$

$2+2=4$
 $R_L = 4 \text{ k}\Omega$

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