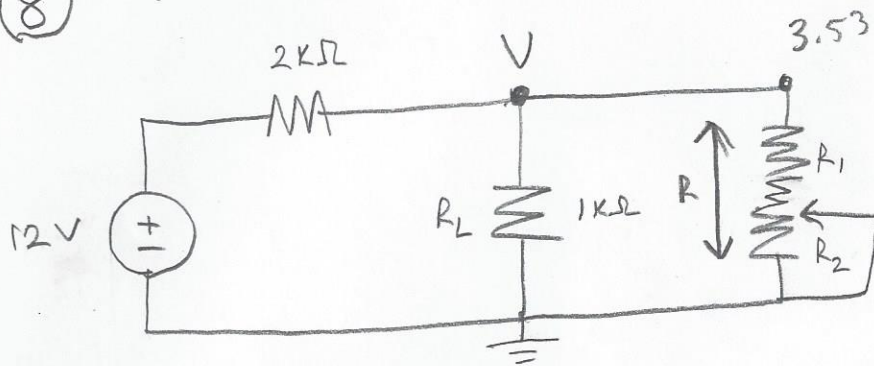


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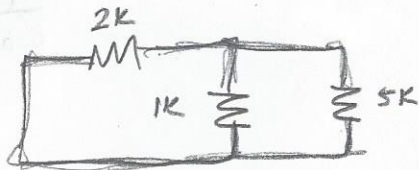


$$R = R_1 + R_2 = 5 \text{ k}\Omega$$

$$\frac{V}{5000} + \frac{V-12}{2000} + \frac{V}{1000} = 0$$

$$.0017V - .006 = 0$$

$$V_{th} = 3.53 \text{ V}$$



$$R_{th} = \left(\frac{1}{2000} + \frac{1}{1000} + \frac{1}{5000} \right)^{-1}$$

$$R_{th} = 588.2 \Omega$$

$$P_L = i_L V_L = \frac{V_s^2 R_L}{(R_s + R_L)^2}$$

