

10/05/23

Quiz 4

Josiah Schmidt

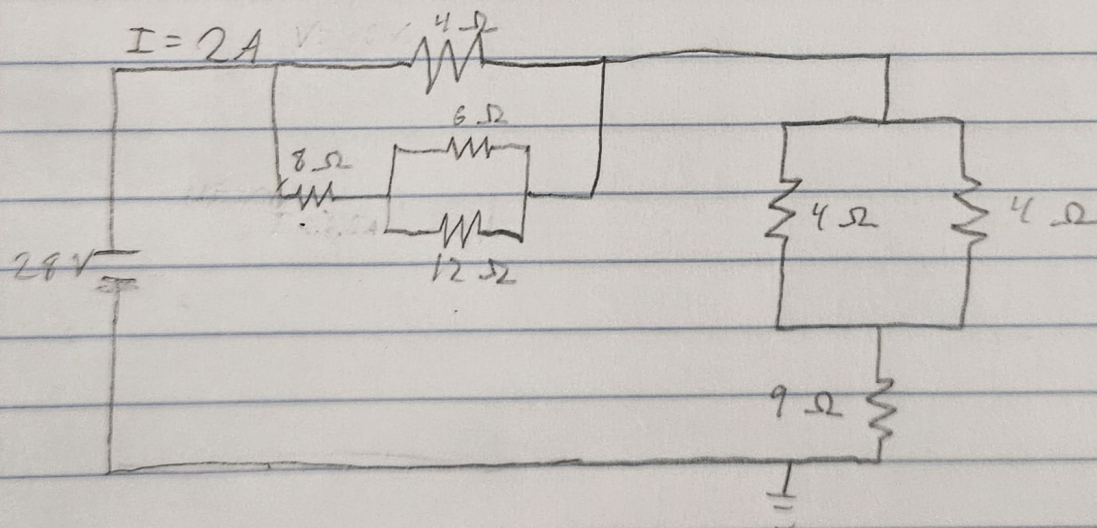
a. 14Ω

$$9 + \frac{1}{\frac{1}{4} + \frac{1}{4}} + \frac{1}{\frac{1}{4} + \frac{1}{8 + \frac{1}{8 + \frac{1}{12}}}} = 9 + 2 + \frac{1}{\frac{1}{4} + \frac{1}{8 + 4}} = 9 + 2 + \frac{1}{\frac{1}{4} + \frac{1}{12}} = 14 \Omega$$

b. $2 A$

$$I = \frac{V}{R_{eq}} \quad I = \frac{28}{14} = 2 A$$

c. $36 W$



$$P = I^2 R$$

$$P = 2^2 \cdot 9 = 36 W$$