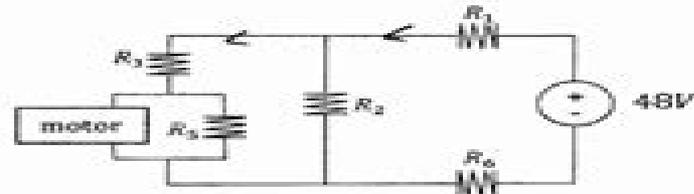


1. It is your first day on the job and you are asked to determine what is wrong with the circuit that is powering a motor that is malfunctioning on a piece of manufacturing equipment; millions of dollars are at stake. You use the circuit schematic diagram that is shown below to trouble shoot the circuit with a voltmeter and find that there is zero voltage measured across the motor. Which of the following component failures is the most probable cause of the problem?

- a. R_6 is shorted
- b. R_2 is shorted
- c. R_5 is opened
- d. R_2 is opened
- e. R_2 is shorted



2. Determine the resistance of a lamp which draws 120 mA of current when connected to a 12.6 V battery?

- a. 63Ω
- b. 9.5Ω
- c. $9.5m\Omega$
- d. 150Ω
- e. 105Ω

$I = 0.12 A$

$V = IR \quad R = \frac{V}{I} = \frac{12.6}{0.12}$
 $R = 105 \Omega$

3. Determine the current I.



$16 - I_2 = 0$
 $I_2 = 16 A$



$16 - 0.83I = 0$
 $I = 19.27 A$

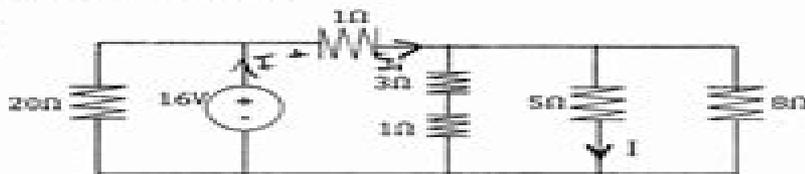
$I = 35.2505$

- a. $1.4 A$
- b. $2.1 A$
- c. $3.4 A$
- d. $4.2 A$
- e. $5.5 A$

$\frac{5.7}{12} = 2.92$

4. Determine the current I.

$16 - 20I = 0$
 $I = 0.8$



$16 - 2.73I_1 = 0$
 $I_1 = 5.86081$

$R_p = \frac{1}{\frac{1}{4} + \frac{1}{5} + \frac{1}{8}} = 1.73$

$16 - 1(1.73) - 5(I) = 0$
 $I = 2.854$

$5.86 \cdot \left(\frac{32}{37} \right)$

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