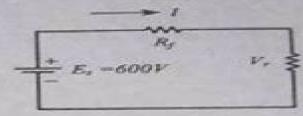
Let :R, - total resistance of the feeder conductors

$$R_s = 2 \left[\frac{0.078 \,\Omega}{1000 \,\text{ft}} \times 2500 \,\text{ft} \right] = 0.39 \,\Omega$$

$$1^2 - 1538.46 + 153846 = 0$$



Using the quadratic formula:

$$1 = \frac{1538.46 \pm \sqrt{(1538.46)^2 - 4(1)(153846)}}{2(1)} = \frac{1538.46 \pm 1323.433}{2}$$

Note: Use negative sign for minimum current

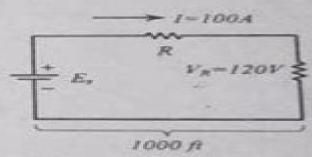
1 = 108 A

Let : R = total resistance of the line

$$A = d^2 = (0.45 \times 1000)^2 = 202,500 \text{ CM}$$

$$R = \frac{10.37(2000)}{202,500} = 0.1024 \,\Omega$$

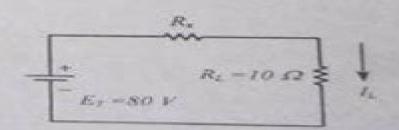
E, = 130.24 volts



37. Assume : R = equivalent resistance of the circuit

38
$$I_L = \frac{V_L}{R_L} = \frac{50}{10} = 5 A$$

$$R_{+} = \frac{E_{,Y} - V_{L}}{I_{L}} = \frac{80 - 50}{5} = 6 \Omega$$



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Ying Liu

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