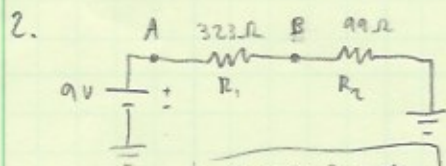


$$V = 9V$$

$$I = \frac{V}{R} = \frac{9}{99} = 0.0909 A = 90.9 mA$$

$$V = 9V$$

$$I = 90.9 mA$$



$$I = 21.3 mA$$

$$V_A = 9V$$

$$V_B = 2.1201V$$

$$I = \frac{V}{R_{eq}}$$

$$R_{eq} = 99 + 323 = 422 \Omega$$

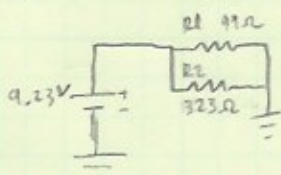
$$I = \frac{9}{422} = 0.02133 A = 21.3 mA$$

$$I = 21.3 mA$$

$$V_A = 9V$$

$$V_B = V_A - V_{R1} = 9 - (21.3)(10^{-3})(323) = 2.1201V$$

3.



$$R_{eq} = \left(\frac{1}{99} + \frac{1}{323} \right)^{-1} = 75.7749 \Omega$$

$$I = \frac{V}{R_{eq}} = \frac{9.23}{75.77} = 0.1218 A = 121.8 mA$$

$$I = I_1 + I_2$$

$$I_1 = I \frac{R_2}{R_1 + R_2} = (121.8) \left(\frac{323}{323 + 99} \right) = 93.226 mA$$

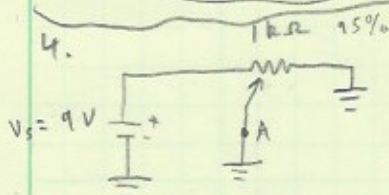
$$I_2 = I - I_1 = 28.57 mA$$

$$V = V_A = V_B = 9.23V$$

$$I = 121.8 mA$$

$$I_1 = 93.226 mA$$

$$I_2 = 28.57 mA$$



$$I = \frac{V}{R}$$

$$R = 0.95(1k\Omega) = 950 \Omega$$

$$V_A = 0.95V_s$$

$$V_A = 0.95(9) = 8.55V$$

$$V_A = 8.55V$$

$$I_A = \frac{V}{R(0.95)} = \frac{9}{50} = 0.180 A = 180 mA$$

$$V_A = 8.55V$$

$$I_A = 180 mA$$