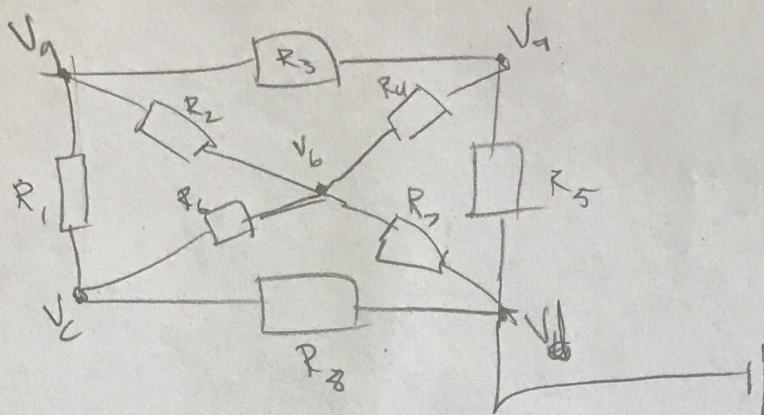


Prelab

$$V_a) \frac{V_a - V_g}{R_3} + \frac{V_a - V_b}{R_4} + \frac{V_a - V_d}{R_5} + \frac{V_a}{R_{10}} = 0$$

$$V_b) \frac{V_b - V_g}{R_2} + \frac{V_b - V_d}{R_7} + \frac{V_b - V_c}{R_6} + \frac{V_b - V_a}{R_4} = 0$$

$$V_c) \frac{V_c - V_b}{R_6} + \frac{V_c - V_d}{R_8} + \frac{V_c - V_g}{R_1} = 0$$

$$V_d) \frac{V_d - V_a}{R_5} + \frac{V_d - V_b}{R_7} + \frac{V_d - V_c}{R_8} = 0$$

$$V_a) \frac{V_a - V_g}{R_3} + \frac{V_a - V_b}{R_4} + \frac{V_a}{R_{10}} + \frac{V_a}{R_5} = 0$$

$$V_b) \frac{V_b - V_g}{R_2} + \frac{V_b - V_a}{R_4} + \frac{V_b - V_c}{R_6} + \frac{V_b}{R_7} = 0$$

$$V_c) \frac{V_c - V_g}{R_1} + \frac{V_c - V_b}{R_6} + \frac{V_c}{R_8} = 0$$

$$R_1 = 1k$$

$$V_g = 12V$$

$$R_2 = 1.5k$$

$$R_3 = 1.5k$$

$$R_4 = 1k$$

$$R_5 = 1.5k$$

$$R_6 = 1k$$

$$R_7 = 1.5k$$

$$R_8 = 1k$$

$$R_{10} = 1k$$

$$R_9 = ?$$