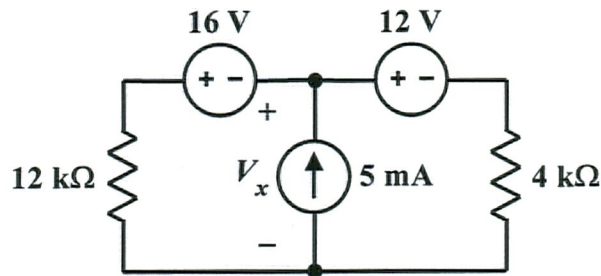
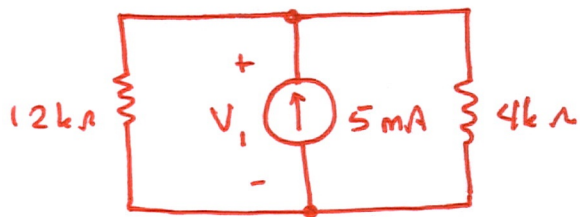


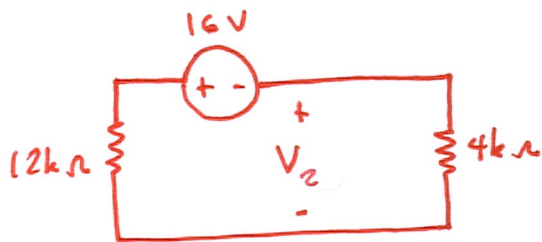
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Homework Problem #24



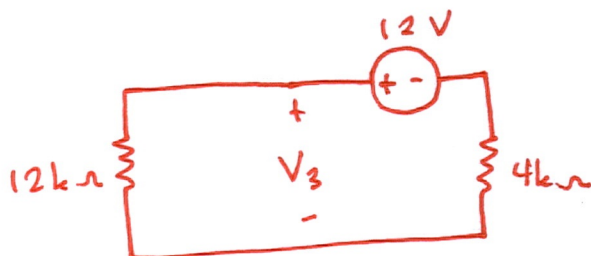
Use the superposition method to determine the value of V_x .



$$V_1 = (12k\Omega) \parallel (4k\Omega) \cdot 5mA = 15V$$



$$V_2 = -\frac{4}{16} \cdot 16V = -4V$$



$$V_3 = \frac{12}{16} \cdot 12V = 9V$$

$$V_x = V_1 + V_2 + V_3 = 15 - 4 + 9 = 20V$$