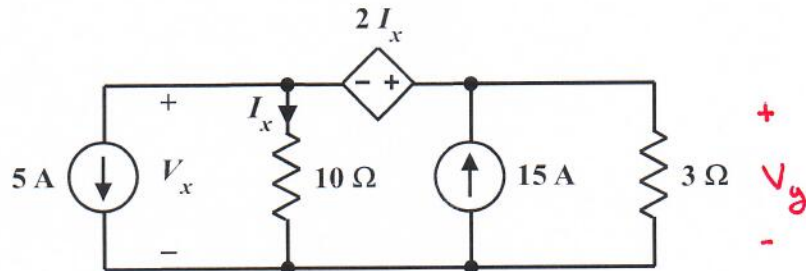


EE/EET 2240
Homework Problem #031



Determine the value of V_x .

$$I_x = \frac{V_x}{10\Omega}$$

$$V_y = V_x + 2I_x \\ = 1.2V_x$$

$$5A + \frac{V_x}{10\Omega} - 15A + \frac{1.2V_x}{3\Omega} = 0$$

$$0.5V_x = 10$$

$$V_x = 20V$$