



$$V_x = V_a - V_b$$

$$V_a = 6k \cdot i_1$$

$$V_b = 3k \cdot i_2$$

$$V_a = 6k \cdot \frac{18}{8k}$$

$$V_b = 3k \cdot \frac{18}{12k}$$

$$V_a = 13,5$$

$$V_b = 4,5$$

$$V_x = 13,5 - 4,5 = \underline{\underline{9V}}$$