

$$V_0 = \frac{1000}{1000} - \frac{1000}{5100} = 0$$

$$-\frac{1000}{1000} - \frac{1000}{5100} = 0$$

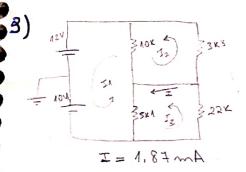
$$-\frac{2196}{500} - \frac{5106}{500} = 0$$

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$$-\frac{5106}{500} = 0$$

$$V_{Th} = V_0 - V_2$$

 $V_{Th} = 5.06 - 10$
 $V_{Th} = -4.94V$



$$Z_{1} = -3.32 \text{ m A}$$

$$Z_{2} = -2.49 \text{ m A}$$

$$Z_{3} = -6.25 \times 10^{-4} \text{ A}$$

$$T = I_3 - I_2 \qquad J = 1.87 \text{ m/s}$$

$$I_{V=0}$$

$$12 + 10 + 5100I_1 - 5100I_3 + 10000I_1 - 10000I_2$$

$$15100I_1 - 10000I_2 - 5100I_3 = -22$$

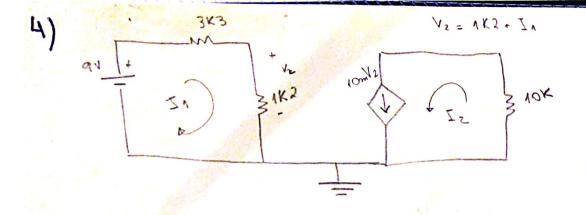
$$I_{V=0}$$

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$$-10000I_1 + 13200I_2 = 0$$

$$I_{V=0}$$

$$I_$$



$$\sum_{Z_1} V_0$$

$$-9 + 3300 Z_1 + 1200 Z_1 = 0$$

$$4500 Z_1 = 9$$

$$Z_1 = 2x10^{-3} - 2mA$$

$$V_2 = 1200 \cdot 2x10^{-3} = 2.4v$$

$$Z_1 = 24.0 mA$$

$$V_3 = 10000 \cdot 24x10^{-3} = 240v$$

5)