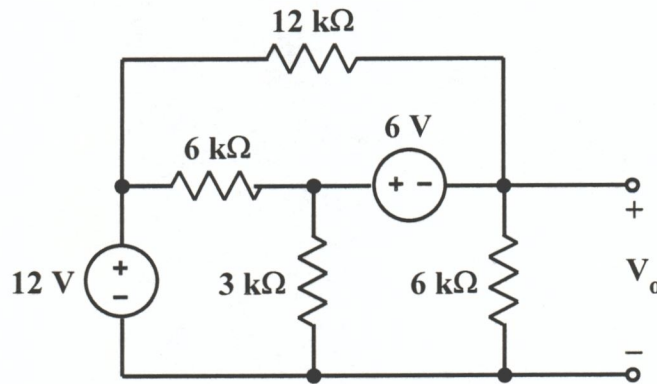
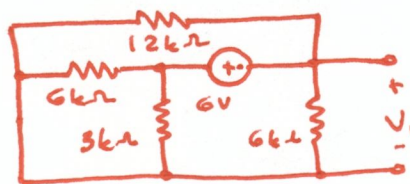


EE 2240
Problem #01

Use the superposition method to find V_o .



For the 6V source:

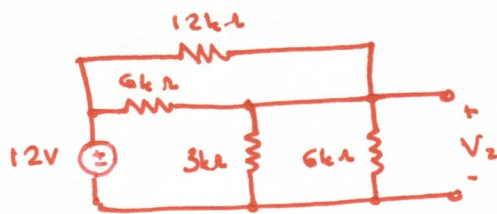


$$6k\Omega \parallel 12k\Omega = 4k\Omega$$

$$3k\Omega \parallel 6k\Omega = 2k\Omega$$

$$V_1 = -\frac{4}{2+4} \cdot 6V = -4V$$

For the 12V source:



$$12k\Omega \parallel 6k\Omega = 4k\Omega$$

$$3k\Omega \parallel 6k\Omega = 2k\Omega$$

$$V_2 = \frac{2}{2+4} \cdot 12V = 4V$$

$$V_o = V_1 + V_2 = -4 + 4 = 0V$$