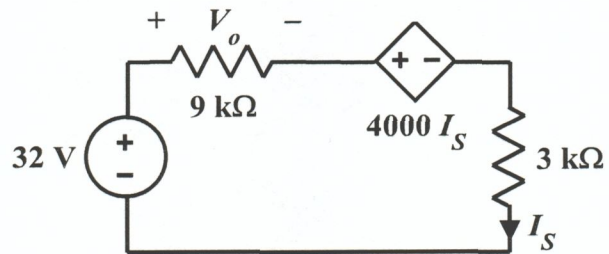


EE 2240
Problem #01

Determine the value of V_o .



$$I_s = \frac{V_o}{9k\Omega}$$

$$V_o + 4000 I_s + (3k\Omega) I_s = 32V$$

$$\Rightarrow V_o + \frac{4}{9} V_o + \frac{3}{9} V_o = 32V$$

$$\frac{16}{9} V_o = 32V$$

$$\therefore V_o = 18V$$