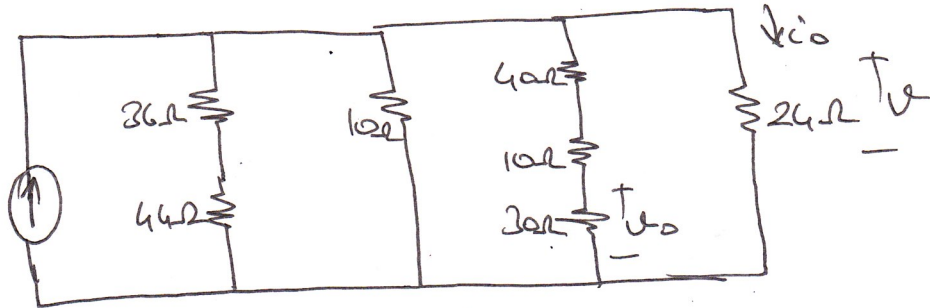


Pr



Use current division to find the current i_o and use voltage division to find the voltage v_o ?

$$R_{eq} = (36 + 44) \parallel 10 \parallel (40 + 10 + 30) \parallel 24 = 6 \Omega //$$

$$i_o = \frac{6}{24} (8A) = \underline{2A} // \Rightarrow v_o = (24)(2) = 48V$$

$$v_o = \frac{30}{(40 + 10 + 30)} \cdot 48 = \underline{18V} //$$