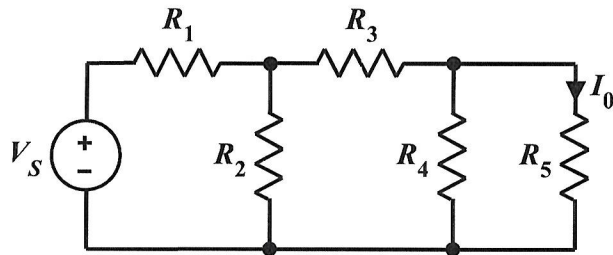


EE 2240

Homework Problem #031

Let I_{01} be the value of I_0 when $V_S = V_1$. If V_S is increased to $3V_1$, what will be the new value of I_0 (in terms of I_{01})?



Since this is a linear circuit, when the input is tripled the output will be tripled. So

$$\text{new } I_0 = 3I_{01}$$