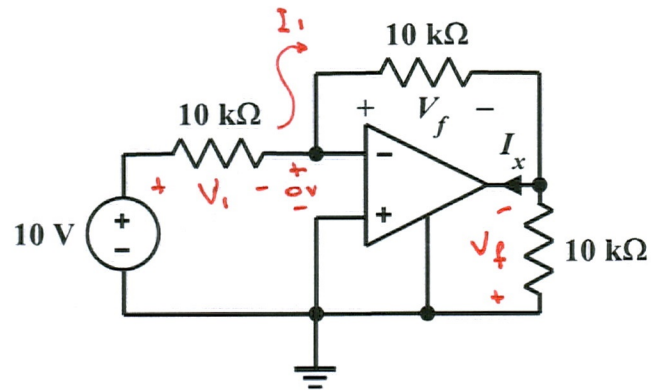


## Homework Problem #35



The OpAmp is ideal. Determine:

- (a) The value of  $V_f$ .

$$V_i = 10\text{V}$$

$$I_i = \frac{V_i}{10\text{k}\Omega} = 1\text{mA}$$

$$V_f = (10\text{k}\Omega) I_i = 10\text{V}$$

- (b) The value of  $I_x$ .

$$I_x = \frac{V_f}{10\text{k}\Omega} + \frac{V_f}{10\text{k}\Omega} = 2\text{mA}$$