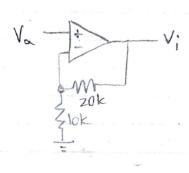


$$\frac{V_{+}-V_{a}}{10\times10^{3}} = \frac{V_{a}-0}{1/0.1\times10^{-6}s}$$

$$V_{+}-V_{a} = (0.1\times10^{-3}s)V_{a}$$

$$V_{a} = \frac{V_{+}}{1+0.1\times10^{3}s}$$



V; Non-inverting opening:

$$A = \frac{V_i}{V_0} = 1 + \frac{20 \times 10^3}{10 \times 10^3}$$

$$V_i = 3V_{\infty}$$

$$\frac{V_1}{V_{T}} = \frac{3}{1 + 0.1 \times 10^{-3} \text{s}} = G(s)$$