

$$V_{i \max} = \frac{12}{15} = \pm \frac{0.44V}{0.6V}$$

$$Q_{i \max} = \frac{12}{15} = \pm \frac{0.6V}{0.6V}$$

$$\frac{V_{B}}{R_{1}} + \frac{V_{B}}{R_{2}} = \frac{V_{O}}{R_{1}}$$

$$V_{O} = R_{1} \cdot \left(\frac{V_{A}}{R_{1}} - \frac{V_{B}}{R_{2}}\right) = 1000 \Omega \cdot \left(\frac{5V}{1000} - \frac{10V}{1000}\right) = \frac{5V}{1000}$$

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$$V_{A} = -V_{G} = -5V$$

$$V_{B} = \underbrace{\frac{5 \cdot 1500}{500}}_{500} = 15V$$

$$\frac{V_{A}}{R_{1}} + \underbrace{\frac{V_{B}}{R_{3}}}_{500} = \frac{-V_{D}}{R_{1}}$$

$$V_{O} = R_{1} \cdot \left(\frac{V_{A}}{R_{1}} - \frac{V_{B}}{R_{2}}\right) = 1000 \Omega \cdot \left(4 \cdot \frac{5V}{1000} - \frac{16V}{1000}\right) = \frac{-10V}{1000}$$

$$V_{A} = -V_{G} = -5V$$

$$V_{B} = \lim_{R \to \infty} \frac{5 \cdot (i\infty \cdot \Omega)}{R} = \lim_{R \to \infty} \frac{5\infty \circ + 6R}{R} = 5V$$

$$\frac{V_{A}}{R_{1}} + \frac{V_{B}}{R_{2}} = \frac{-V_{O}}{R_{1}}$$

$$V_{G} = R_{1} \cdot \left(\frac{V_{A}}{R_{1}} - \frac{V_{B}}{R_{2}}\right) = 1000 \Omega \cdot \left(\frac{5V_{O}}{1000} - \frac{5V_{O}}{1000}\right) = \frac{6V_{O}}{R_{1}}$$

$$\int_{V_{1}} dx = \int_{V_{1}} dx = \int_{V$$

 $\frac{\sqrt{2}}{\sqrt{2}} + \frac{\sqrt{2}}{\sqrt{2}} = -C V_0$ 

 $\sqrt{c} = -R(\dot{v}, c_1 + \dot{v}_2 c_2)$ 

