$$-1 - \chi_{c} = \frac{1}{\omega c} = \frac{1}{2\pi f \cdot c}$$

$$X_{c} = \frac{1}{\omega c} = \frac{1}{2\pi f c}$$

$$V = 12$$

$$= \alpha + jb$$

$$z = R + j \times 2$$

$$= a + jb$$

$$V_2 = i \cdot Z_2 = \frac{V_0}{Z_{1+}Z_2} \cdot Z_2$$
 $Z_1 = \frac{1}{\omega C_1}$ $Z_2 = \frac{1}{\omega C_2}$

$$Zz = \frac{1}{\omega(z)}$$

$$V_{2} = \frac{V_{0}}{\frac{1}{\omega C_{1}}} + \frac{1}{\omega C_{2}} = \frac{V_{0}}{\omega C_{1}} \cdot \frac{1}{\omega C_{1}} = \frac{1}{\omega C_{1}} \cdot \frac{1}{\omega C_{2}} = \frac{1}{\omega C_{1}} \cdot \frac{1}{\omega C_{1}} = \frac{1}{\omega C_{1}} \cdot \frac{1}{\omega C_{2}} = \frac{1}{\omega$$

 $m 10^{-3}$

$$V_1 = 12 - 10 \cdot 10^9 = 12 \cdot 10 = 1.09$$