

$$(a) \quad \frac{E_o}{E_s} = \frac{1}{(R^2 C_1 C_2) s^2 + (2RC_2) s + 1}$$

$$(b) \quad \omega_n = \frac{1}{R\sqrt{C_1 C_2}} \quad \text{and} \quad \zeta = \sqrt{\frac{C_2}{C_1}}$$