$$R_{E} = 4.7 K \Omega$$
 $V_{B} = V_{CC} \cdot \frac{R_{2}}{R_{2} + R_{1}}$
 $V_{B} = 15 \cdot \frac{12 K}{12 K + 27 K}$

and
$$V_{E} = V_{B} - 0.7V$$
 $\rightarrow I_{E} = \frac{V_{E}}{R_{E}} = \frac{3.915}{4.7K} = 0.833 \text{ mA}$

$$I_c = \frac{B}{B+1} I_e = \frac{150 \cdot 0.833}{151} \rightarrow I_B = \frac{C}{B} = \frac{0.827}{150} = \frac{5.513 \cdot pA^3}{150}$$

$$R_{0} = R_{c} = \frac{5.6 \text{ k s}}{150 \text{ k}} = \frac{150}{150 \text{ k}} \left(\frac{R_{c}}{I_{c}} \right)$$

$$= \left(\frac{150}{151} \right) \left(\frac{5.6 \text{ k}}{38} \right)$$

$$= -146.39$$

$$A_{V} = \frac{V_{0}}{V_{i}}\Big|_{FL} = -\left(\frac{150}{151}\right)\left(\frac{5.6k[1]0k}{38}\right)$$

$$= -93.84$$