

$$5 - 1.84 = 3.16$$

$$V_o(t) = V_\infty - (V_\infty - V_o) e^{-t/\tau}$$

$$V_o(2) = 0 - (0 - 5) e^{-1}$$

$$V_o(2) = 5 \cdot e^{-1} = 1.84 \text{ V}$$

$$t = 1.5 \text{ ms}$$

$$V_o(1.5) = 0 - (0 - 5) \cdot e^{-0.5} = 5 e^{-0.5} = 3.03 \text{ V}$$

$$V_o(1.5) = 0 - (0 - 3.16) \cdot e^{-0.5} = 3.16 e^{-0.5} = 1.91 \text{ V}$$

$$V_c(1.5) = ?$$

$$\frac{.2}{.2}$$

$$U_a = 3.03$$

$$U_c = V_i - U_a = 5 - 3.03$$

$$U_c = 1.97 \text{ V}$$