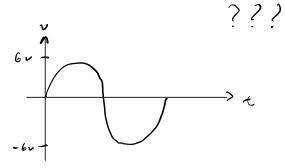
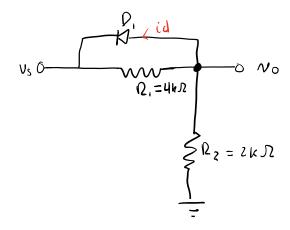
Nolun Anderson

Quiz #3

$$Q_2 = 2h \Omega$$





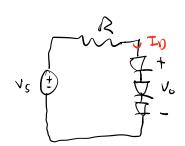
$$\frac{V_0 - V_S}{4000} + iD + \frac{V_0 - V_S}{2000} = 0 \qquad iD = -\left(\frac{V_0 - V_S}{4000} + \frac{V_0 - V_S}{2000}\right)$$

$$i D = -\left(\frac{v_0 - v_s}{u_0 co} + \frac{v_0 - v_s}{2000}\right)$$

$$iD = -\frac{3v_0 - 3v_5}{4000}$$
 $iD = \frac{18 - 3v_0}{4000}$

$$00 = 0.710$$

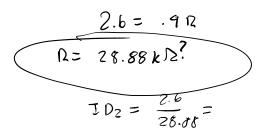
$$0d = 0.4 \text{ mA}$$



Pack diode has:
$$\frac{2.4}{3} = 0.8 \text{ V}$$
 $\frac{V_s - V_o}{\Omega} = T_D$

$$\frac{V_s - V_o}{\Omega} = T_D$$

$$\frac{5-2.4}{R} = 0.9 \text{ mA}$$



$$I_D = I_D$$
, $exp(\frac{5-2.4}{25E-3})$