$$\frac{1}{107} \qquad 1_{DSS} = 100 \text{ mA}$$

$$V_{GSOH} = V_P = -4.5 \text{ V}$$

$$\Rightarrow 1_{D} = 1_{OSS} \left( 1 - \frac{V_{gS}}{V_P} \right)^2 = 100 \text{ m} \left( 1 + \frac{V_{gS}}{V_1S} \right)^2$$

$$V_{GS} = V_{G} - V_{S} = 0 - V_{S} = -V_{S}$$

$$I_{D} \cong I_{S} \qquad V_{S} = I_{D} \cdot R \qquad \text{TD} = 100 \text{ M}$$

$$-\frac{v_{65}}{R} = I_{555} \left(1 - \frac{v_{68}}{v_{P}}\right)^{2} ; -\frac{v_{65}}{R} = I_{555} \left(1 + \left(\frac{v_{68}}{v_{P}}\right)^{2} - 2 \cdot \frac{v_{65}}{v_{P}}\right)$$

$$I_{OSS} + I_{OSS} \cdot \left(\frac{V_{SS}}{V_{P}}\right)^{2} - 2 \frac{V_{SS}}{V_{P}} I_{OSS} + \frac{V_{SS}}{R} = 0$$

$$\frac{V_8 s^2}{V_P^2} + V_8 s \left(\frac{1}{12} - \frac{2 V_{95}}{V_P}\right) + \frac{1}{10 s s} \left(\frac{V_8 s}{V_P}\right)^2 = 0$$