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$$I_D = \frac{5 - 1.5 - V_{DS}}{R} = 12$$

$$I_D = K_n [2(V_{GS} - V_{TN})V_{DS} - V_{DS}^2]$$

$$12 = 4[2(5 - 0.8)V_{DS} - V_{DS}^2]$$

$$4V_{DS}^2 - 33.6V_{DS} + 12 = 0 \Rightarrow \underline{V_{DS} = 0.374 \text{ V}}$$

$$\text{Then } R = \frac{5 - 1.5 - 0.374}{12} \Rightarrow \underline{R = 261 \Omega}$$

TYU3.16

a. $I_D = \frac{5 - V_o}{R_D} = K_n [2(V_2 - V_{TN})V_o - V_o^2]$

$$\frac{5 - (0.10)}{25} = K_n [2(5 - 1)(0.10) - (0.10)^2] \Rightarrow \underline{K_n = 0.248 \text{ mA/V}^2}$$

b. $\frac{5 - V_o}{25} = 2(0.248)[2(5 - 1)V_o - V_o^2]$

$$5 - V_o = 12.4[8V_o - V_o^2]$$

$$12.4V_o^2 - 100.2V_o + 5 = 0$$

$$V_o = \frac{100.2 \pm \sqrt{(100.2)^2 - 4(12.4)(5)}}{2(12.4)} \Rightarrow \underline{V_o = 0.0502 \text{ V}}$$

TYU3.17

$$I_{DQ} = K(V_{GS} - V_{TN})^2 \Rightarrow 5 = 50(V_{GS} - 0.15)^2 \Rightarrow \underline{V_{GS} = 0.466 \text{ V}}$$

$$V_S = (0.005)(10) = 0.050 \text{ V} \Rightarrow V_{GS} = V_{GS} + V_S = 0.466 + 0.050 \Rightarrow \underline{V_{GS} = 0.516 \text{ V}}$$

$$V_D = 5 - (0.005)(100) \Rightarrow V_D = 4.5 \text{ V}$$

$$V_{DS} = V_D - V_S = 4.5 - 0.050 \Rightarrow \underline{V_{DS} = 4.45 \text{ V}}$$

TYU3.18

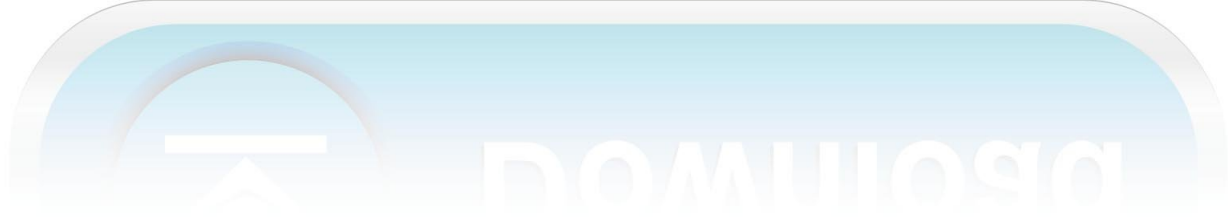
$$I_D = K[2(V_{GS} - V_{TN})V_{DS} - V_{DS}^2]$$

$$= 100[2(0.7 - 0.2)(0.1) - (0.1)^2]$$

$$I_D = 9 \mu\text{A}$$

$$R_D = \frac{2.5 - 0.1}{0.009} \Rightarrow \underline{R_D = 267 \text{ k}\Omega}$$

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