

$$I_D = I_{DSS} \left(1 - V_{GS}/V_P\right)^2$$

$$I_D = 16 \text{ mA} \left(1 - V_{GS}/-4\right)^2 = 4 \text{ mA}$$

$$\left(1 + \frac{V_{GS}}{4}\right)^2 = \frac{1}{4}$$

$$1 + \frac{V_{GS}}{4} = \pm \frac{1}{2}$$

$$4 + V_{GS} = \pm 2$$

$$V_{GS} = -2 \text{ or } V_{GS} = -6$$

to operate in the saturation region, $V_{GS} > V_P = -4 \text{ V}$

$$\therefore \underline{\underline{V_{GS} = -2 \text{ V}}}$$



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