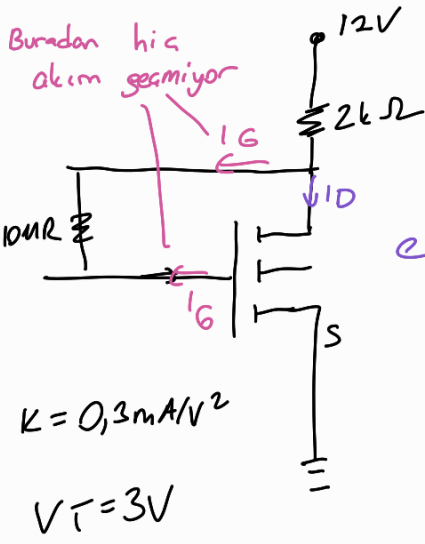


12. hafta



$$I_D = K (V_{GS} - V_T)^2$$

$$\frac{12 - V_{GS}}{2k \times 0,3m} = 0,3m (V_{GS} - 3)^2$$

$$12 - V_{GS} = 3 (V_{GS}^2 - 6V_{GS} + 9)$$

$$\boxed{V_{GS} = 6,128} \quad V_{GS} = -1,735$$

$$I_D = \frac{12 - 6,128}{2k} = 2,936 \text{ mA}$$