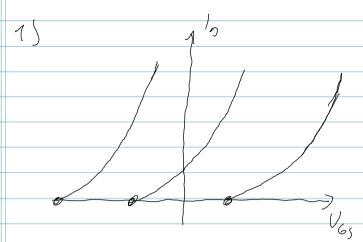
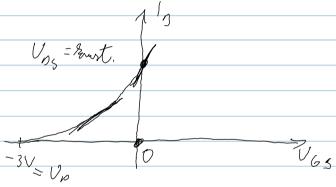


2006 - 2007

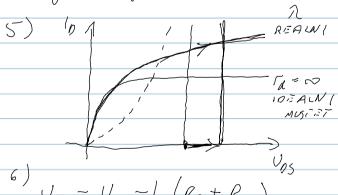


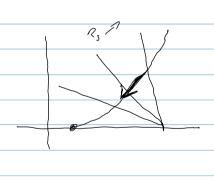
2) MJFET '- 2 $3) U_{p} = -3V$



 $V_{DS} = V_{6S} - V_{p}$ $2 = V_{6S} + 3$ V₆₅ = -1_V

Vos = VGS - VGS 0





 $V_{0s} = V_{0\eta} - l_0 \left(R_{0\eta} + R_s \right)$

2007 - 2008

$$V_{c3} = V_c - V_B = O - (-V_1) = V_7 > 0$$

20116-2007

ZADACI

$$= 2.25 - 0.75 = 1.5 < 2V$$

$$\frac{1}{3} = \frac{5}{2} (V_{65})$$

$$4m = k (V_{65})$$

$$I_{5} = \frac{5}{2} \left(V_{65} - V_{650} \right)^{2}$$

$$J_{m} = \kappa \left(V_{65} - V_{650} \right) = 0.666 \frac{mA}{V}$$

$$V = \frac{2}{\left(V_{65} - V_{650} \right)^{2}} = \frac{2 \cdot 0.5 \cdot 10^{3}}{3 \cdot 2.5} = 0.44 \frac{mA_{V2}}{3 \cdot 2.5}$$

1.5)
$$g_{m} = K U_{0S} = 0.888 \text{ may}$$

$$r_{a} = \frac{1}{9a} \qquad g_{a} = K (V_{GS} - V_{GSO}) - K V_{DS}$$

2) 2.1
$$I_{DR} = 2.41 \text{ mA}$$

2AS.

 $I_{OR} = \frac{1}{2}(V_{6S} - V_{6SO})^2$
 $V_{6S} = \frac{1}{2}(V_{6S} - V_{6SO})^2$
 $V_{6S} = \frac{1}{2}(V_{6S} - V_{6SO})^2$
 $V_{6S} = \frac{1}{2}(V_{6S} + V_{6SO})$
 $V_{6S} = \frac{1}{2}(V_{6S} + V_{6SO})$
 $V_{6S} = \frac{1}{2}(V_{6S} - V_{6SO})^2$
 $V_{6S} = \frac{$

2.4
$$R_{ul} = R_{s} || \frac{f u_{gs}}{f i u}$$

$$= R_{s} || \frac{f u_{s} + R_{o} || R_{r}}{1 + \mu}$$
2.5 $R_{iz} = R_{o} || \left[f u_{s} + \left(R_{g} || R_{s} \right) \left(1 + \mu \right) \right]$

$$S = > D$$

$$MNDZEMJE$$
3.1 MPM NAP
3.2 $P_{Eo} = P_{oE} \cdot exp\left(\frac{U_{SE}}{V_{T}}\right)$

$$U_{SE} = V_{T} \cdot lu \cdot \frac{P_{Eo}}{P_{oE}}$$
3.3 $I_{E} = -\left(P_{R} + I_{ME} \right)$

$$I_{ME} = 9 \cdot S \cdot D_{MS} \cdot \frac{M_{Po} - M_{SV}}{W_{R}}$$

MNOZENIE

1 E < 0

B= - x = x · B*

$$3.4 l_3 > 0$$

$$l_3 = l_R + l_{PZ} - k_{30}$$

3.5
$$l_{z} = -2 m A$$
 $l_{z} = 1.99 m A$

$$\beta = \frac{1c}{l_{B}}$$

$$l_{z} = -l_{z} = 0.01 m A$$

$$\beta = \frac{1.99 m A}{0.01 m A}$$