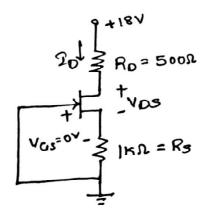
parameters  $\mathcal{D}_{DSS} = 8mR$  and  $U_{P} = -4.V$ . Determine the value of RD for which the JFET operates on the border between the active and the obmic regions.

Fig. 1 An n-channel JFET circuit

(assume  $\Omega_{DSS} = 8mR$  and  $V_P = -4V$ )



(0.3) Consider the MOSFET circuit shown below, where the depletion Nmos transistor has I Dos = 8 mA and Vp = -2v. Let us Find Vas, ip, and Vps.