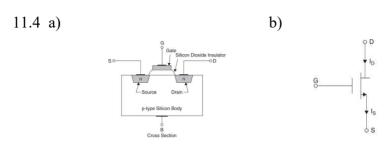
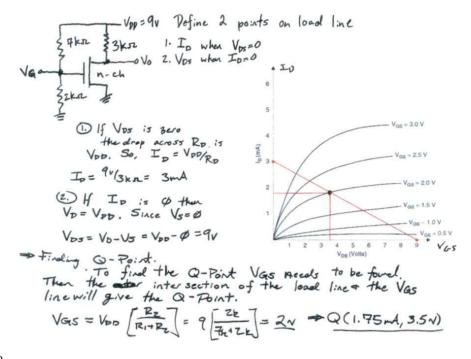
전기전자공학개론 숙제 #5 정답

11.2 a) FET: field effect transistor, controls current by voltage BJT: bipolar junction transistor, controls current by voltage

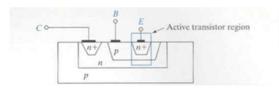
b) control current flow as a result of an input signal



11.7



11.28



11.38

b.)
$$V_{RB} = V_{BB} - V_{B} = 2 - 0.7 = 1.3v$$

 $R_{B} = 50kn$

b)
$$V_{RB} = V_{88} - V_{8} = 2 - 0.7 = 1.3v$$

$$I_{B} = \frac{2 - 0.7}{50 \text{ km}} = 26 \text{ mA}$$

$$I_{C} = \beta I_{B} = (100)(26 \text{ mA}) = 2.6 \text{ mA}$$

$$I_{E} = (14 \text{ B}) I_{B} = (101)(26 \text{ mA}) - 2.626 \text{ mA}$$