

Fig 3 (d)

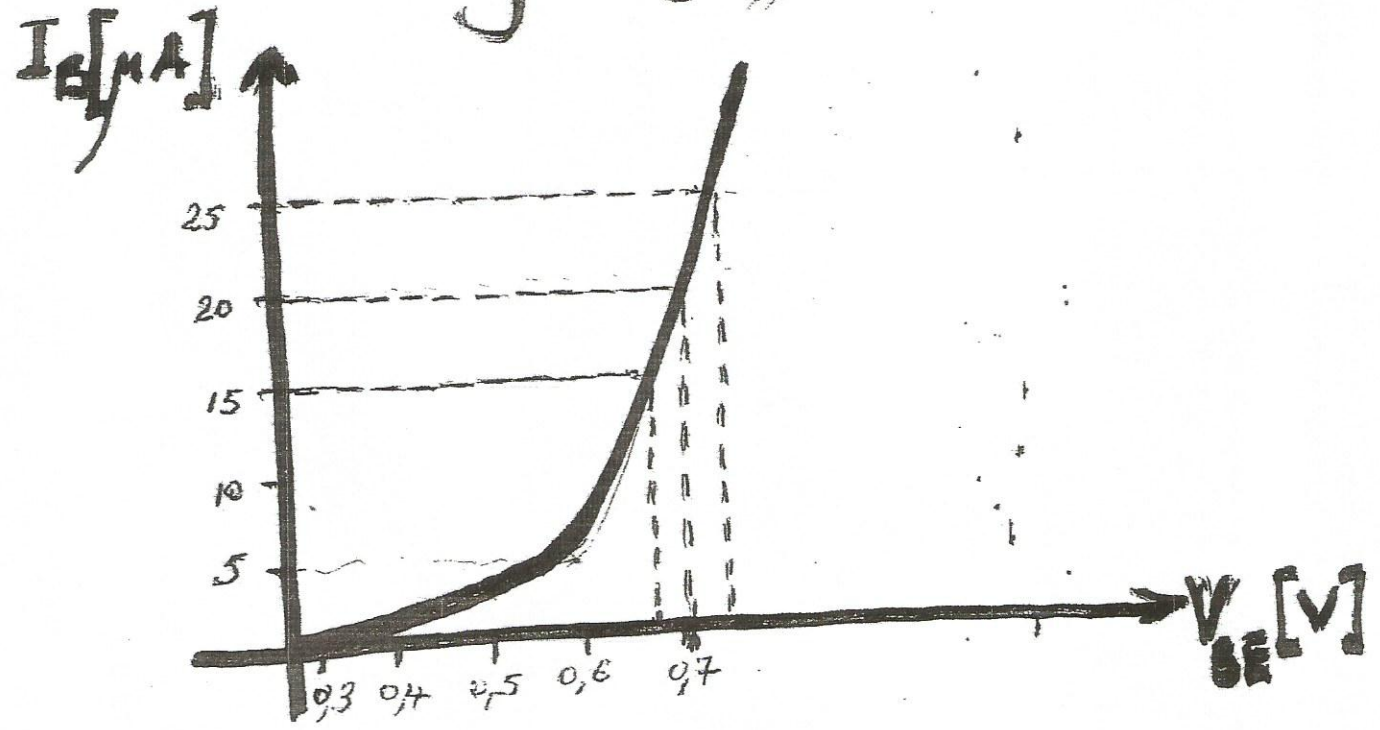
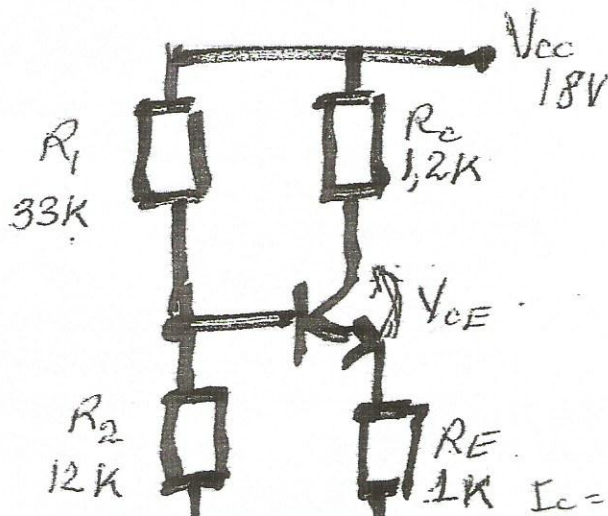
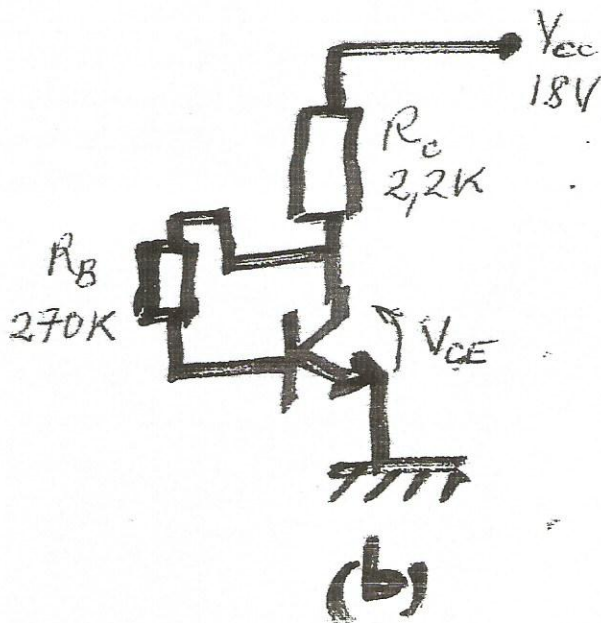
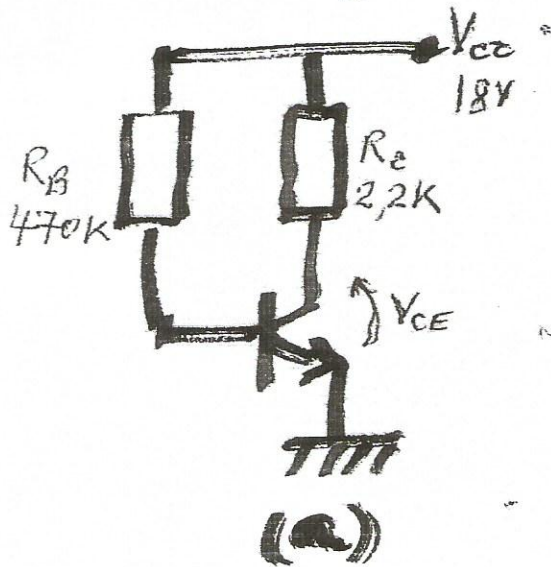


Figure 4

# Figure 5



$$I_B = \frac{V_{CC} - V_{BE}}{R_B}$$

$$I_B = I_C$$

$$I_C = \beta_{DC} I_B \quad V_{CE} = V_{CC} - I_C R_C$$

$$I_C = \frac{V_{CC} - I_C R_C - V_{BE}}{\beta_{DC} R_B}$$