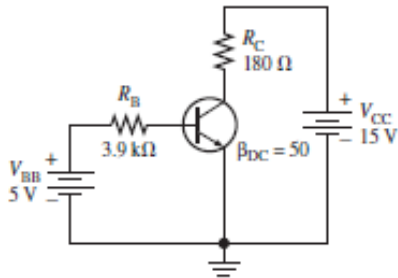
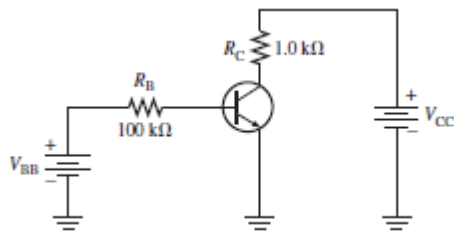


Q. NO 1

a). Find  $V_{CE}$ ,  $V_{BE}$ , and  $V_{CB}$  in both circuits of Figure.



Q. No 2



a). Assume that the transistor in the circuit of Figure 4-53 is replaced with one having a  $\beta_{DC}$  of 200. Determine  $I_B$ ,  $I_C$ ,  $I_E$ , and  $V_{CE}$  given that  $V_{CC} = 10 \text{ V}$  and  $V_{BB} = 3 \text{ V}$ .