QI) Determine the Q point of the transistor circuit shown in Fig. QI below. Also draw the DC load line.

Criven that  $\beta(hge) = 200$  and  $V_{BE} = 0.7V$ 

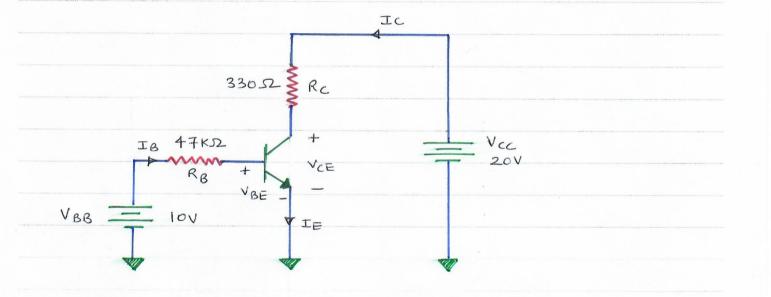


Fig. Q1

(Q2) Find the Q-point of the base-bias transister circuit shown in Fig. 032. Also, construct the Dc Aoad line and plot the 9-point from the values obtained. Determine, whether the ciscuit is mid-point biased. P Vec = 8V RC & 2KSZ

Fig. Q2

(93 Deferrine the values of Icg and VCEQ of the circuit shown in Fig. Q3 using voltage divider bias. calculate the exact value of the a point. P Vcc = 10 V II hFE =150

Fig . 93

(84 For the same circuit shown in Fig. Q3 ( from previous question), calculate the approximate value of Q-point using the assumption I2 > 10 IB.

