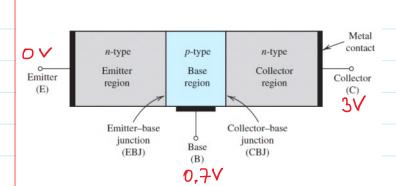
Studyt ID
$$\rightarrow x \times --- \frac{4}{3} \frac{3}{2} \frac{2}{1}$$

$$V_{x} = (3+1) - 20 = -16$$



In which region the BJT is operating? autoff/active/saturation

Table 6.1 BJT Modes of Operation		
Mode	EBJ	CBJ
Cutoff Active Saturation	Reverse Forward Forward	Reverse Reverse Forward

VP Vn Vp P n Nn Npì Nn ⇐> Forward

(EDJ)
$$N_B - N_E = N_P - N_n = 0.7$$
 Forward

(CBJ) VB - Vc = Np - Vn = -2.3 Reverse

Active Made

