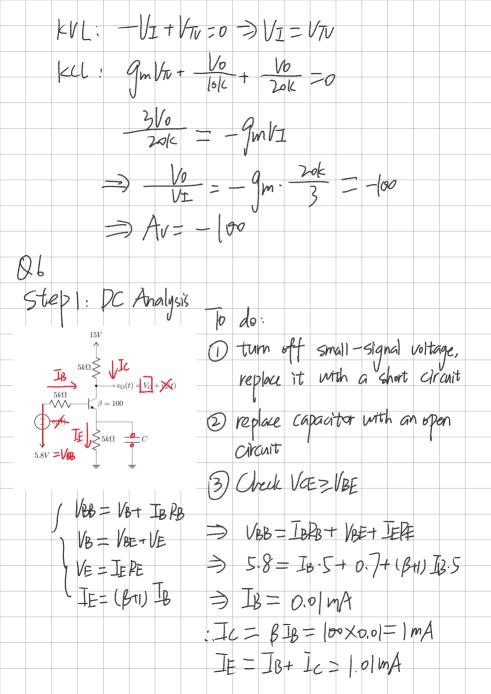
$$V_{B} = V_{BE} + I_{E}R_{E} = 0.7 + 1.29 \times 3 = 4.57 V$$

$$IC = I_{B} - I_{B} = 1.29 - 0.0128 = 1.28 \text{ mA}$$

$$V_{C} = 15 - I_{C}R_{C} = 15 - 1.28 \times 5 = 8.6 V$$

$$Q + V_{AE} = I_{A} = I_$$



$$Vc = 15 - Ickc = 15 - \times 5 = 10V$$

$$VE = Ieke = 1.01 \times 5 = 5.95V$$

$$VCE = Vc - VE = [0 - 5.05 = 4.95V] = VEE$$

$$\Rightarrow forward active$$

$$Step 2: Calculate gm, VTU$$

$$gm = Ic = |x|e^{-3}$$

$$0.025 = 0.04 A/V$$

$$VTU = IB = 0.025$$

$$0.025 = 5.5k$$

$$Step 3/4/S: Small - Sigm | mode|$$

$$To do:$$

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