

(i)
$$I_{n}(D)$$
, $I = 2 - 0.001 V_{AB}$
 8000

$$I_{n}(D)$$
, $V_{AB} = -80I \times 50000$

$$= -\frac{10}{8000} \times 50000 \times (2 - 0.001 V_{AB})$$
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JI2=80XI=-1X10-5A

 $I_1 = 1 = 2x10^{-5}A$

$$R_{AB} = V_{AB} \qquad I_{3} = I_{2} + I_{1}$$

$$I_{3} = 1 \times 10^{-5}$$

$$= 1$$

$$1 \times 10^{-5}$$

$$= R_{AB} = 10^{5} R_{7M} = R_{1}$$

$$I_{L} = -\frac{2000}{2 \times 10^{8}} = -1 \times 10^{-2} A$$