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Exercise 1-3 This figure belongs to Exercise 1.15. $v_i = 100 \text{ mV}$, $v_s = 10 \text{ V}$, $R_1 = 100 \text{ k}\Omega$, $R_2 = 1 \text{ M}\Omega$, $R_3 = 1 \text{ k}\Omega$, $R_4 = 100 \text{ k}\Omega$, $R_5 = 2 \text{ L}$, $R_6 = 1 \text{ k}\Omega$, $R_7 = 100 \text{ Stage 1}$, $R_8 = 100 \text{ Stage 2}$. Thus, $P_i = 0.5 \times 0.5 = 0.25 \text{ }\mu\text{W}$ and $A_p = 6.25 \times 10^{-3} \times 0.25 \times 10^{-6} = 25 \times 10^3$, $10 \log A_p = 44 \text{ dB}$. Ex: 1.13 Open-circuit (no load) output voltage = A_{v_o} . Output voltage with load connected = $A_{v_o} \frac{R_L}{R_L + R_o}$. $0.8 = \frac{1}{R_o + 1} \Rightarrow R_o = 0.25 \text{ k}\Omega = 250$

Determine the short-circuit current in Thevenin's form circuit. Use Ohm's law to calculate i_{sc} . Therefore, the short-circuit current in Thevenin's form circuit is i_{sc} . Determine the short-circuit current in Norton's form circuit. Note that the current always takes the low impedance path. Therefore,

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