

**CHAPTER 3****3.1** Output = 5 Volts =  $V_o$ Input = 5  $\mu\text{V}$  =  $5 \times 10^{-6}$  volts =  $V_i$ 

$$\text{Gain} = G = \frac{V_o}{V_i} = \frac{5}{5 \times 10^{-6}} = 10^6$$

$$G_{dB} = 20 \log_{10} G = 20 \log_{10} 10^6 = 120 \text{ dB}$$

**3.2** $G_{dB} = 60 \text{ dB}$  $V_i = 3 \text{ mV} = 3 \times 10^{-3}$  volts $G_{dB} = 60 \text{ dB} = 20 \log_{10} G$ 

$$3 \text{ dB} = \log_{10} G$$

$$\Rightarrow G = 10^3$$

$$\Rightarrow G = V_o / V_i$$

$$V_o = G \times V_i = 10^3 (3 \times 10^{-3}) \\ = 3 \text{ volts}$$

**3.3** Eq. 3.2 applies. For  $G = 10$ ,  $G_{dB} = \log_{10}(10) = 20$ . Similarly, for  $G = 100$  and 500, the decibel gains are 40 and 54.**3.4** The circuit resembles Fig. 3.9 (a). For this problem we want the voltage drop across the resistor  $R_s$  to be  $0.01 \times V_s$ . The current in the loop is  $I = V_s / (R_s + R_i)$  and the voltage drop across the resistor is  $V_{drop} = I \times R_s$ .

Combining these:

$$0.01 \times V_s = V_s / (R_s + R_i) \times R_s = V_s / (120 + R_i) 120. \text{ Solving for } R_s, \text{ we get}$$

$$R_s = 11,880 \Omega.$$

**3.5** The circuit resembles Fig. 3.9(a). The input voltage,  $V_i$ , is  $I \times R_s$ . The current is  $V_s / (R_s + R_i)$ . Combining,  $V_i = R_s \times V_s / (R_s + R_i)$ . In the first case:

$$0.005 = 5 \times 10^5 \times V_s / (R_s + 5 \times 10^6) \text{ For the second case:}$$

$$0.0048 = 10,000 \times V_s / (R_s + 10,000) \text{ These can be solved simultaneously to give}$$

$$R_s = 416 \Omega.$$

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