Problem A.1

All parts of the problem are solved using the relation

$$V_{rms} = \sqrt{4kTRB}$$

where

$$k = 1.38 \times 10^{-23} \text{ J/K}$$
$$B = 30 \text{ MHz} = 3 \times 10^7 \text{ Hz}$$

a. For R = 10,000 ohms and $T = T_0 = 290$ K

$$V_{rms} = \sqrt{4(1.38 \times 10^{-23})(290)(10^4)(3 \times 10^7)}$$
$$= 6.93 \times 10^{-5} \text{ V rms}$$
$$= 69.3 \text{ } \mu V \text{ rms}$$

b. V_{rms} is smaller than the result in part (a) by a factor of $\sqrt{10} = 3.16$. Thus

$$V_{rms} = 21.9 \text{ } \mu V \text{ rms}$$

c. V_{rms} is smaller than the result in part (a) by a factor of $\sqrt{100} = 10$. Thus

$$V_{rms} = 6.93 \text{ } \mu V \text{ rms}$$

d. Each answer becomes smaller by factors of 2, $\sqrt{10} = 3.16$, and 10, respectively.

Problem A.2

Use

$$I = I_s \exp\left(\frac{eV}{kT}\right) - 1$$

We want $I > 20I_s$ or $\exp\left(\frac{eV}{kT}\right) - 1 > 20$.

a. At $T = 290$ K, $\frac{e}{kT} = \frac{1.6 \times 10^{-19}}{1.38 \times 10^{-23} \times 290} \cong 40$, so we have $\exp(40V) > 21$ giving

$$V > \frac{\ln(21)}{40} = 0.0761 \text{ volts}$$

$$i_{rms}^2 = 2eIB = 2eBI_s \exp\left(\frac{eV}{kT}\right)$$

or

$$\frac{i_{rms}^2}{B} = 2eI_s \exp\left(\frac{eV}{kT}\right)$$
$$= 2(1.6 \times 10^{-19})(1.5 \times 10^{-5}) \exp(40 \times 0.0761)$$
$$= 1.0075 \times 10^{-22} \text{ A}^2/\text{Hz}$$

b. If $T = 90$ K, then $\frac{e}{kT} = 129$, and for $I > 20I_s$, we need $\exp(129V) > 21$ or

$$V > \frac{\ln(21)}{129} = 2.36 \times 10^{-2} \text{ volts}$$

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