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Problem A.1

All parts of the problem are solved using the relation

where.

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

V_{rms} =
$$\sqrt{4(1.38 \times 10^{-23})(290)(10^4)(3 \times 10^5)}$$

= 6.93 × 10⁻⁵ V rms
= 69.3 µV rms

b. $V_{\rm rms}$ is smaller than the result in part (a) by a factor of $\sqrt[4]{10}$ = 3.16. Thus

c. V_{max} is smaller than the result in part (a) by a factor of $\sqrt[4]{100} = 10$. Thus

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

Problem A.2

Use

$$I = I_0 \exp \frac{eV}{kT} - 1$$

We want I > 20Is or exp $\frac{46}{10}$ - 1 > 20.

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

$$i_{cons}^2 \simeq 2eIB \cdot 2eBI_s \exp \frac{eV}{kT}$$

or
$$\frac{\xi_{cma}^2}{B}$$
 = 2eIs exp $\frac{gV}{kT}$
= 2 1.6 × 10⁻¹⁵ 1.5 × 10⁻⁵ exp (40 × 0.0761)
= 1.0075 × 10⁻²² A²/Hz

b. If T = 90 K, then $\frac{1}{27}$ = 129, and for I > 20Is, we need exp(129V) > 21 or

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

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