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217 Comparing v with Eq. (2.13) yields that $A = 0.02$ m. Moreover, 27.157° and so 23.157° is 0.400 rad. The relationship between frequency and wavelength is $\omega = 2\pi f = 2\pi(4.00 \times 10^{14}) = 2.513 \times 10^{15}$ rad/s. The period is the inverse of the frequency, and therefore $T = 0.015$ s.

218 (a) $(4.0 \text{ eV}) = 4.0 \text{ eV}$
(b) $\lambda = \frac{hc}{E} = \frac{1240 \text{ nm}\cdot\text{eV}}{4.0 \text{ eV}} = 310 \text{ nm}$
(c) $(4.0 \text{ eV}) = 4.0 \text{ eV}$
From the figure, $A = 0.020$ m
 $k = \frac{2\pi}{\lambda} = \frac{2\pi}{310 \text{ nm}} = 2.05 \times 10^7 \text{ rad/m}$
(d, e, f) $0.020 \sin(kx + \omega t) = 0.020 \cos(kx + \omega t)$

219 (a) $(4.00 \text{ eV}) = 4.00 \text{ eV}$
 $f = \frac{c}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{310 \text{ nm}} = 9.68 \times 10^{14} \text{ Hz}$

220 (a) $(0.20 - 0.00) \text{ eV} = 0.20 \text{ eV}$ (b) $f = \frac{c}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{600 \text{ nm}} = 5.00 \times 10^{14} \text{ Hz}$ (c) $\omega = 2\pi f = 3.14 \times 10^{15} \text{ rad/s}$
(d) $0.20 \text{ eV} = 0.20 \text{ eV}$
(e) $0.20 \text{ eV} = 0.20 \text{ eV}$
(f) $0.20 \text{ eV} = 0.20 \text{ eV}$

221 (a) $1.00 \text{ eV} = 1.00 \text{ eV}$
(b) $1.00 \text{ eV} = 1.00 \text{ eV}$
(c) $1.00 \text{ eV} = 1.00 \text{ eV}$
(d) $1.00 \text{ eV} = 1.00 \text{ eV}$
(e) $1.00 \text{ eV} = 1.00 \text{ eV}$
(f) $1.00 \text{ eV} = 1.00 \text{ eV}$

222 From Eq. (2.26) (a) $A = 0.020$ m (b) $f = 4.00 \times 10^{14}$ Hz
(c) $0.020 \text{ m} = 2.0 \text{ cm}$
(d) $0.020 \text{ m} = 2.0 \text{ cm}$
(e) $0.020 \text{ m} = 2.0 \text{ cm}$
(f) $0.020 \text{ m} = 2.0 \text{ cm}$

223 (a) $10.0 \text{ eV} = 10.0 \text{ eV}$
(b) $10.0 \text{ eV} = 10.0 \text{ eV}$
(c) $10.0 \text{ eV} = 10.0 \text{ eV}$
(d) $10.0 \text{ eV} = 10.0 \text{ eV}$
(e) $10.0 \text{ eV} = 10.0 \text{ eV}$
(f) $10.0 \text{ eV} = 10.0 \text{ eV}$

224 (a) $f = 4.00 \times 10^{14}$ Hz (b) 0.020 m (c) 0.020 m
(d) $0.020 \text{ m} = 2.0 \text{ cm}$
(e) $0.020 \text{ m} = 2.0 \text{ cm}$
(f) $0.020 \text{ m} = 2.0 \text{ cm}$

225 (a) $f = 4.00 \times 10^{14}$ Hz (b) 0.020 m (c) 0.020 m
(d) $0.020 \text{ m} = 2.0 \text{ cm}$
(e) $0.020 \text{ m} = 2.0 \text{ cm}$
(f) $0.020 \text{ m} = 2.0 \text{ cm}$

226 (a) $f = 4.00 \times 10^{14}$ Hz (b) 0.020 m (c) 0.020 m
(d) $0.020 \text{ m} = 2.0 \text{ cm}$
(e) $0.020 \text{ m} = 2.0 \text{ cm}$
(f) $0.020 \text{ m} = 2.0 \text{ cm}$

227 (a) $f = 4.00 \times 10^{14}$ Hz (b) 0.020 m (c) 0.020 m
(d) $0.020 \text{ m} = 2.0 \text{ cm}$
(e) $0.020 \text{ m} = 2.0 \text{ cm}$
(f) $0.020 \text{ m} = 2.0 \text{ cm}$