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Chapter 10 note taking worksheet waves

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PHYSICS 10 SECTION
2 Work list
1 PERIOD CALLED 1. The wave has a frequency of 60 Hz and a wave length of 2.0 meters. What are the period and rate of reproduction? (Answer T = .0167s, V = 120m/s)
2. The 40 Hz travelling wave moves to the right. How long does it take for one complete wavelength to pass a specific point? (Answer T = .025 s)
3. While standing on the pier, you notice that the crest of the wave passes every 1.5 seconds. If the distance between the crests is 4.0 meters what is the speed of surface waves? (Answer V = 2.67 m/s)
4. Standing on a cliff, you look at the ocean waves and notice that the new coat of arms hits the cliff every 3 seconds. By comparing the distance between adjacent crests, you determine the length of the waves 10 meters. What is the speed of surface waves on the water? (Answer V = 3.33 m/s)
5. The body oscillates with simple harmonic movements along the x-axis. Its displacement varies over time according to the equation $x = 4.0\text{m} \cos(\pi t + \pi/4)$ where t per second and the angles in the bracket are in the radians. A. Specify amplitudes, frequency, and period. B. Calculate speed @ t = 1 second. c. Calculate acceleration @ t = 1 second. (Amplitude response = 4.0 meters, frequency = .5 Hz, Point = 2 seconds, V = 8.89 m/s, = 27.92 m/s²)
p/2 p 0.2p 5p/4 3p/2
6. The particle shift gives the expression $x = 4\text{m} \cos(3\pi t + \pi)$ where the x is in meters and t is per second. A. Find the frequency and period of movement b. Find motion amplitude c. Find phase angle d. Find the particle offset at t = .25 seconds (Answer f = 1.5 Hz, T = .667 seconds, Amplitude = 4.0 m, Phase angle = π or 180 degrees, x = 2.83 meters)
7. The particle oscillates with simple harmonic movements so that its shifts vary depending on the expression as $x = 5 \text{ cm} \cos(2t + \pi/6)$ where it is x in cm and t per second. On t = 0 seconds find: a. Particle shift b. Particle speed c. Particle acceleration d. Period and amplitude of movement. (Answer .0433 m, V = -.05 m/s, a = .1732 m/s² , Amplitude = .05 m, T = 3.14 seconds)
p/2 p/6 p 0.2p 3p/2
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PHYSICS CHAPTER 10 SECTION 2 Worksh
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