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Transverse waves worksheet answers

Loading Transverse Wave Worksheet - Varga-Sturgis - Home No text content! Name: Date:Physics First Period: Transverse Waves Worksheet1. Draw a transverse wave on the axes below.2. Label the ridges, depressions, wavelength, amplitude on the wave you drew above. Amplitude3. Frequency is the number of complete wave cycles that occur every second. Write the formula: frequency 4. Is the frequency measured in which units? 1cycle5. The frequency of the underlying wave is second : 1 Hz. Note that 1 full wave cycle occurs every second. Time (seconds)Use the previous example to find the frequency of the following waves. One way to do this is to figure out how many seconds it takes for 1 full wave. This is the wave period, and the frequency is just the reciprocal of this number. The x-axis must be labeled with time (seconds), the y-axis must be labeled amplitude. Frequency : Frequency - Frequency - Frequency No. 6. Draw waves of the following frequency: LABEL the x-axis with numbers. Time (seconds) Time (seconds) Frequency : 2 HzFrequency - 1 Hz Time (seconds) Time (seconds)Frequency - 4 Hz Frequency - 1/2 HzAmplitude7. Starting with the wave drawn below, draw each of the following waves. Time (seconds)a. A wave with twice the amplitude. Label axes with numbers. Time (seconds)b. A wave with a double wavelength. Label axes with numbers. Time (seconds)c. A double-frequency wave. Label axes with numbers. Time (seconds)8. The period of a wave is the time it takes the wave to make a full cycle. 1 Period - frequencya. Frequency: Period 2 Hz : _____ secondsb. Frequency: Period 1/2 Hz : _____ Frequency: _____ Period Hz : 3 seconds To continue enjoying our site, we ask you to confirm your identity as a human being. Thank you very much for your cooperation.