

- | | |
|-------------------------------|--|
| 1. Transverse wave A | A. A wave where the oscillation is perpendicular to the direction of motion. |
| 2. Longitudinal wave D | B. The bottom of a wave. |
| 3. Crest C | C. The top of a wave. |
| 4. Trough B | D. A wave where the oscillation is in the same direction (parallel) as the motion. |
| 5. Wavelength E | E. The length of one wave cycle. |

A wave has a wavelength of 2 meters and a frequency of 1.5 Hz. What is its speed?

$$v = \lambda f = (2\text{m})(1.5\text{Hz}) = 3\text{m/s}$$

A wave is 8 meters long and has a frequency of 3 Hz. Find speed.

$$v = \lambda f = (8\text{m})(3\text{Hz}) = 24\text{m/s}$$

A wave has a period of 4 seconds. Find its frequency.

$$f = \frac{1}{T} = \frac{1}{4\text{s}} = 0.25\text{Hz}$$

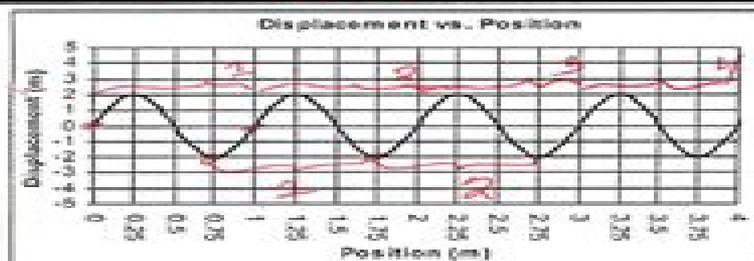
A wave has a frequency of 2 Hz. Find its period.

$$T = \frac{1}{f} = \frac{1}{2\text{Hz}} = 0.5\text{s}$$

A wave has a speed of 50 m/sec. If its frequency is 100 Hz, what is its wavelength?

$$v = \lambda f$$

$$\lambda = \frac{v}{f} = \frac{50\text{m/s}}{100\text{Hz}} = 0.5\text{m}$$



Mark 1 cycle of the wave.

Starting at 0.75 m, where does the 2nd cycle end: **2.75m**

Number of complete cycles: **4**

Wavelength: **1m** Amplitude: **2m**

If $f = 4\text{ Hz}$, find speed: $v = \lambda f = (1\text{m})(4\text{Hz}) = 4\text{m/s}$

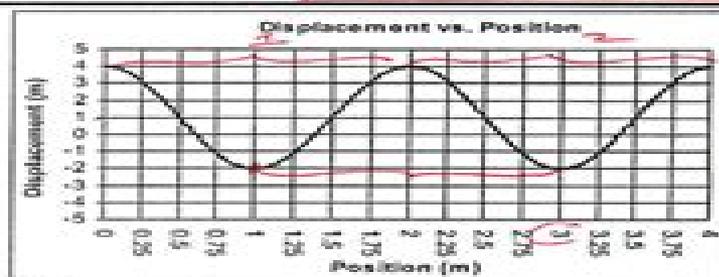
Wave Motion, Yes or No?

- | | |
|-------------------------------|-------------------------|
| FM radio: Yes | Music: Yes |
| A car going 70 m/s: No | A bulldozer: No |
| Clock pendulum: No | Earthquakes: Yes |
| Ocean waves: Yes | Cellphones: Yes |

Pendulum A is 20 cm long and has a 5 g mass on it. Pendulum B is 30 cm long and has a 10 g mass on it. Which one has a faster period?

$$T = 2\pi\sqrt{\frac{L}{g}}$$

mass doesn't matter
Pendulum A will have smaller (faster) T



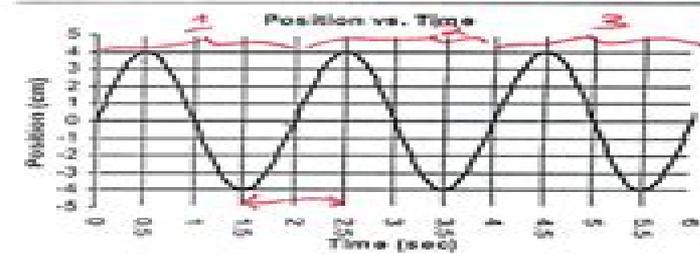
Mark 1 cycle of the wave.

Starting at 1 m, where does the next cycle end: **3m**

How many wavelengths long is the graph? **2**

Wavelength: **2m** Amplitude: **2m**

If $f = 0.5\text{ Hz}$, find speed: $v = \lambda f = (2\text{m})(0.5\text{Hz}) = 1\text{m/s}$



Mark 1 cycle of the harmonic motion.

Starting at 1.5 sec, when does half a cycle end: **2.5 s**

Number of complete cycles: **3**

Period: **2s**

Frequency: **0.5 Hz**

Amplitude: **4m**

Harmonic Motion Ch 11 1 Answer Key

Jianjun Gao



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