Wave Physics Fundamentals

Physics · Answer Key · 5 Questions

1. What is the relationship between frequency and wavelength when velocity is constant?

A) Directly proportional
B) Inversely proportional
C) Unrelated
D) Exponential

2. If a wave has a frequency of 3 Hz and an amplitude of 4 m, what is the velocity?

A) 7 m/s
B) 1 m/s
C) 12 m/s
D) 0.75 m/s

3. If velocity is 24 m/s and frequency is 6 Hz, what is the wavelength?

A) 4 m
B) 144 m
C) 0.25 m
D) 18 m

4. If velocity is 40 m/s and wavelength is 8 m, what is the frequency?

A) 320 Hz
B) 5 Hz
C) 48 Hz
D) 0.2 Hz

5. Wavelength is typically measured between which two corresponding points on a wave?

A) Two crests
B) Two troughs
C) A crest and a trough
D) Half a cycle

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