

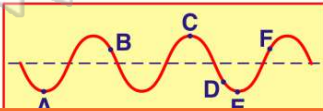


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 Radio waves and gamma rays traveling in space have the same
- A frequency
  - B wavelength
  - C period
  - D speed



- 3 The diagram below represents a wave traveling in a uniform medium. Which two points on the wave are in phase?
- A A and C
  - B A and E
  - C B and D
  - D C and F



- 2 Two waves having the same amplitude and the same frequency pass simultaneously through a uniform medium. Maximum destructive interference occurs when the phase difference between the two waves is
- A  $0^\circ$
  - B  $90^\circ$
  - C  $180^\circ$
  - D  $360^\circ$

- 4 Which waves can be polarized?
- A light waves from an incandescent bulb
  - B sound waves from a tuba
  - C longitudinal waves
  - D seismic waves (P-waves)

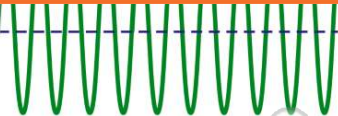


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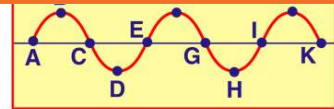
**PREVIEW**

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- 6
- A 0.2 s
  - B 1 s
  - C 5 s
  - D 4 s



- 7
- A A and D
  - B A and G
  - C C and K
  - D D and I



- 9 Two waves traveling in the same medium interfere to produce a standing wave. What is the phase difference between the two waves at a node?
- A  $0^\circ$
  - B  $90^\circ$
  - C  $180^\circ$
  - D  $360^\circ$

- 10 As a pulse travels along a rope, the pulse loses energy and its amplitude
- A decreases
  - B increases
  - C remains the same





## ANSWER KEY

Radio waves and gamma rays traveling in space have the same

- A frequency
- B wavelength
- C period
- D speed



(d)

Two waves having the same amplitude and the same frequency pass simultaneously through a uniform medium. Maximum destructive interference occurs when the phase difference between the two waves is

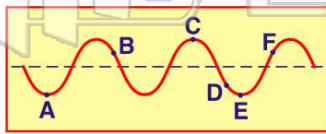
- A 0°
- B 90°
- C 180°
- D 360°

(c)

The diagram below represents a wave traveling in a uniform medium.

Which two points on the wave are in phase?

- A A and C
- B A and E
- C B and D
- D B and F



(b)

Which waves can be polarized?

- A light waves from an incandescent bulb
- B sound waves from a tuba
- C longitudinal waves
- D seismic waves (P-waves)



(a)



## PREVIEW

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D 4 s



- B A and G
- C C and K
- D D and I



Two waves traveling in the same medium interfere to produce a standing wave. What is the phase difference between the two waves at a node?

- A 0°
- B 90°
- C 180°
- D 360°

(c)

As a pulse travels along a rope, the pulse loses energy and its amplitude

- A decreases
- B increases
- C remains the same



(a)