

Name: _____

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Chapter 19.3 Homework

Conceptual Physics

Parent Signature: _____

Each numbered question is worth one point unless otherwise noted.

Reviewing Concepts

14. What happens if two waves are in the same place at the same time? Use the term *superposition principle* in your answer.

15. Can two waves interfere with each other so that the new wave formed by their combination has no amplitude? What type of interference is this?

16. What happens to the amplitude of two waves as the result of

a. constructive interference

b. destructive interference

Solving Problems

10. Which graph on page 466 shows the superposition of the two in-phase waves (A, B, or C)?

11. Which graph on page 466 shows the superposition of the two out-of-phase waves (A, B, or C)?