Problems

13.2 Wave Properties: Speed, Amplitude, Frequency, and Period   25.

If a seagull sitting in water bobs up and down once every 2 seconds and the distance between two crests of the water wave is 3 m, what is the velocity of the wave?

  a. 1.5 m/s
  b. 3 m/s
  c. 6 m/s
  d. 12 m/s

26.

A boat in the trough of a wave takes 3 seconds to reach the highest point of the wave. The velocity of the wave is 5 m/s. What is its wavelength?

  a. 0.83 m
  b. 15 m
  c. 30 m
  d. 180 m