

Young and Freedman, Chapter 15

4. (a) 556 m (b) 2.87 m

6. (a) 6.50 mm (b) 28.0 cm (c) 27.8 Hz (d) 7.78 m/s (e) +x direction

10. (i) no v, a down (ii) v up, a down (iii) v up, no a (iv) v up, a up (v) no v, a up
(vi) v down, a up (vii) v down, no a (viii) v down, a down

20. (a) 0.22 W (b) 0.056 W

48. (a) 0.750 cm, 0.00800 s, 125 Hz, 5.00 cm, 6.25 m/s (c) -x direction (d) 1.95 N
(e) 5.42 W