

Chapter 22

Standing Waves

22.1 Because at that moment the two pulses are superimposed on the same location and since one pulse is up and the other is down they interfere destructively

22.2 Five



22.3

22.4 (a) See figure 22.4, (b) 132 cm, 66 cm, 44 cm, 33 cm

22.5 (a) 132 cm, (b) 580.8 m/s, (c) 66 cm, (d) 580.8 m/s, (e) 880 Hz

22.6 (a) 580.8 m/s, (b) 880 Hz, 1760 Hz, 2640 Hz, 3520 Hz, (c) 880 Hz, 1760 Hz, 2640 Hz, 3520 Hz



22.7

22.8 32.5 cm