

Merging of triangular pulses (section 15.6):

1. Work Y&F Exercise 15.28.

2. Work Y&F Exercise 15.29.

Standing waves (section 15.7):

3. Work Y&F Exercise 15.34.

Normal modes of a string (section 15.8):

4. Work Y&F Exercise 15.39.

5. Work Y&F Exercise 15.42.

An interaction:

6. Work Y&F Exercise 15.47. This problem describes the interaction of a vibrating guitar string with a sound wave. The vibrating string creates the sound wave. If we think of the guitar string as a kind of “long” oscillator, then we could say we have an oscillator/wave interaction. But if we think of the string as carrying a wave, then perhaps we could say we have a wave/wave interaction! This problem draws attention to similarities and differences of the two waves.