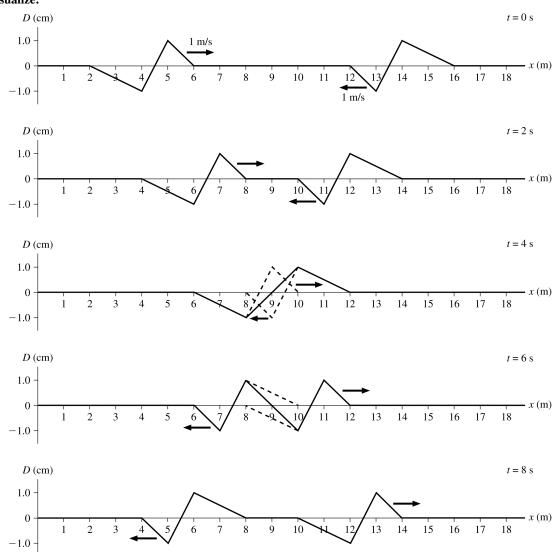
21.3. Model: The principle of superposition comes into play whenever the waves overlap. **Visualize:**



The graph at t = 2 s differs from the graph at t = 0 s in that the left wave has moved to the right by 2 m and the right wave has moved to the left by 2 m. This is because the distance covered by the wave pulse in 2 s is 2 m. The snapshot graphs at t = 4 s and t = 6 s are a superposition of the left and the right moving waves. The overlapping parts of the two are shown by the dotted lines.