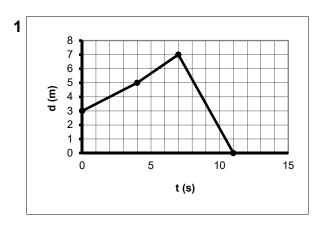
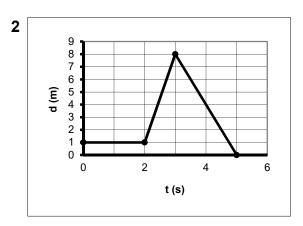
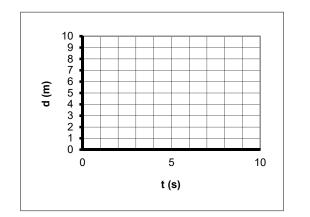
## **Distance-Time Graphs**

For #1 and 2, describe the motion of the object. For #3 and 4, draw the distance-time graphs.





**3** The object starts at 7 m from the wall. It moves away from the wall at a speed of 1 m/s for 2 s until it is 9 m from the wall. It turns around and moves towards the wall at a speed of 1.5 m/s for 4 s until it is 3 m from the wall. It stays where it is for 3 s.



around and moves towards wall at a speed of 7 m/s for the wall at a speed of 1.75 The object starts at 3 m then moves away from the until it is 5 m from the wall the wall at a speed of 0.67 wall. //2. The object starts m/s for 4 s until it is at the moves towards the wall at 1 s until it is 8 m from the It then moves away from wall. It turns around and stays where it is for 2 s. speed of 0.5 m/s for 4 s from the wall. It moves m/s for 3 s until it is 7 m a speed of 4 m/s for 2 s away from the wall at a at 1 m from the wall. It rom the wall. It turns until it is at the wall Answers

**4** The object starts at 2 m from the wall. It moves away from the wall at a speed of 1.25 m/s for 4 s until it is 7 m from the wall. It stays where it is for 4 s until it is 7 m from the wall. It then moves towards the wall at a speed of 2 m/s for 2 s until it is 3 m from the wall.

