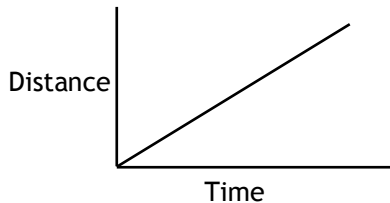
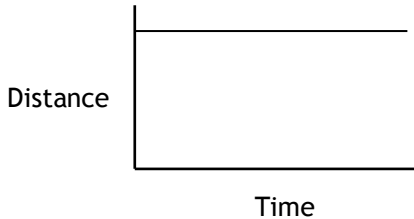
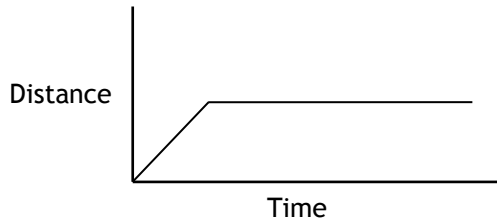
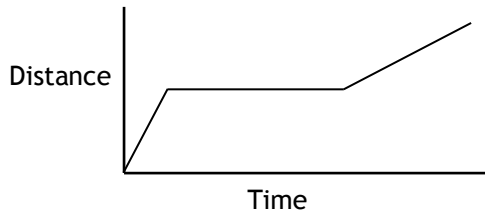
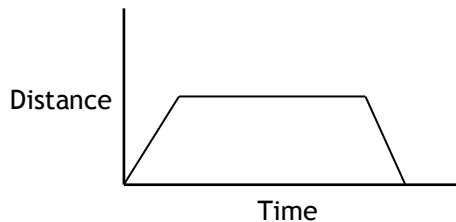


Task

The graphs below represent the motion of an unusually large earwig yesterday morning. For each graph, write a description of the earwig's movements.

Graph	What's happening?
 A distance-time graph with 'Distance' on the vertical axis and 'Time' on the horizontal axis. The graph is a straight line starting from the origin (0,0) and extending upwards and to the right at a constant positive slope.	
 A distance-time graph with 'Distance' on the vertical axis and 'Time' on the horizontal axis. The graph is a horizontal line starting from a positive value on the vertical axis and extending to the right, indicating constant distance over time.	
 A distance-time graph with 'Distance' on the vertical axis and 'Time' on the horizontal axis. The graph starts at the origin, increases linearly for a short period, and then becomes a horizontal line, indicating constant distance after an initial period of constant speed.	
 A distance-time graph with 'Distance' on the vertical axis and 'Time' on the horizontal axis. The graph starts at the origin, increases linearly, then becomes a horizontal line for a period, and finally increases linearly again with a steeper slope than the first segment.	
 A distance-time graph with 'Distance' on the vertical axis and 'Time' on the horizontal axis. The graph starts at the origin, increases linearly to a peak, then becomes a horizontal line for a period, and finally decreases linearly back to the origin.	

Extension:

If that was too easy, in your book sketch a distance time graph for the following scenario:

A motorbike is stuck behind a slow moving car on a country road for 20 seconds. The biker then accelerates to pass the car and continues accelerating until he reaches the speed limit (because he's a responsible and law-abiding biker!). The total time spent accelerating is 5 seconds. After 10 seconds at the speed limit, he spots a cow in the road and completes an emergency stop, reaching a complete standstill in 5 seconds. He waits for 10 seconds until the cow walks off the road.