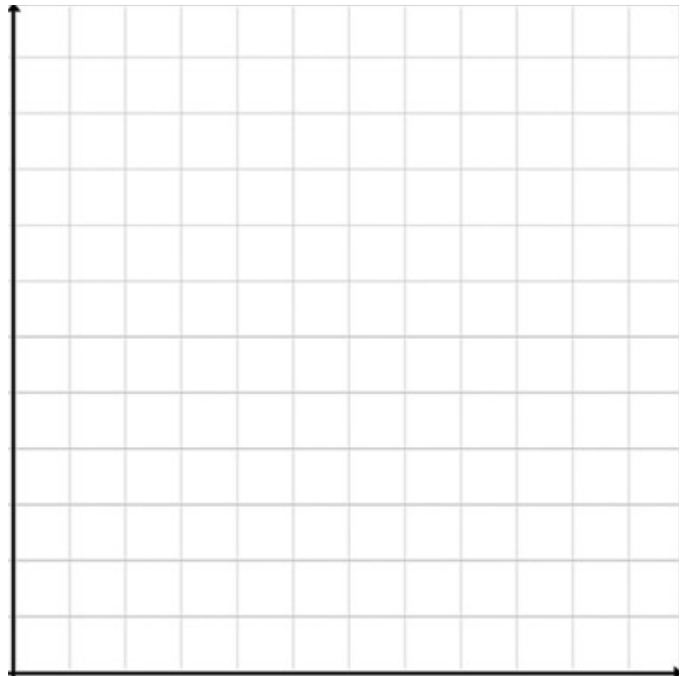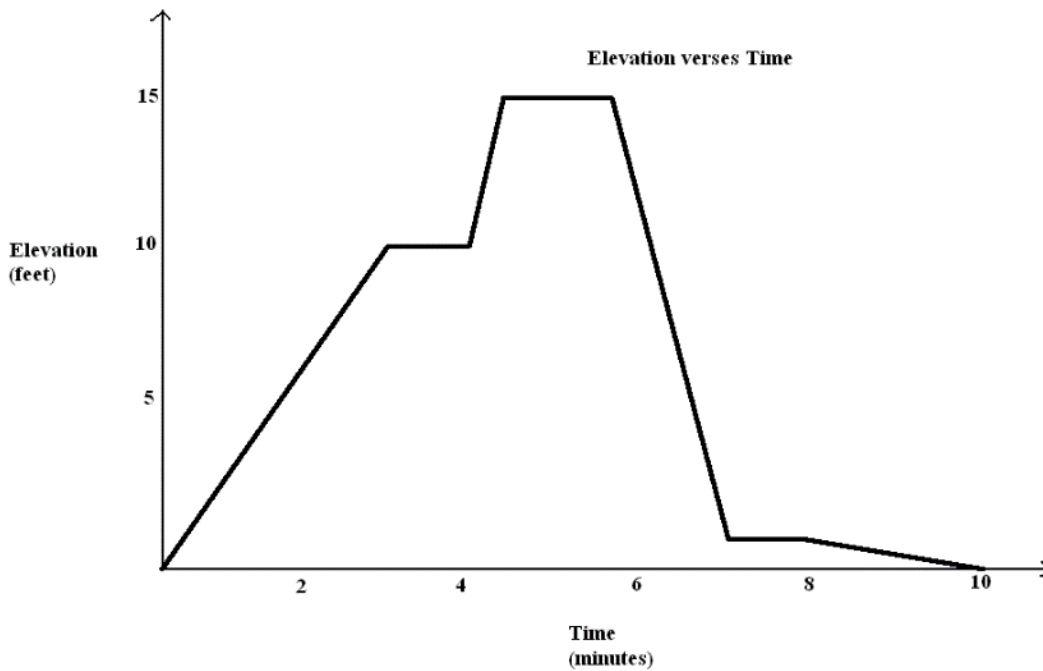**Example 1 - Exploratory Challenge**

What do you notice about the man's motion in the video? Consider how his height above the ground changes over time. Then we will create a graph to represent the motion.

Example 2

Describe what a person may have been doing during this time.

Elevation verses Time

Elevation
(feet)

Time
(minutes)

Example 3 - Draw an elevation-vs-time graph to describe this story.
A woman is climbing down a ladder. At time 0 sec., her shoes are at 10 ft. above the floor, and at time 6 sec., her shoes are at 3 ft. From the time 6 sec. to 8.5 sec., she drinks some water on the step 3 ft. off the ground. After drinking, she takes 1.5 sec. to descend to the ground, and then she walks to her front door.

   a. Title your graph. Label your axes.
   b. Use straight line segments to model the elevation of the woman. Label each line segment A, B, C, etc. What are the time intervals for each line segment?

   c. What does a horizontal line segment on this graph mean?

   d. During which time period was she descending at the fastest rate? How do you know?