

Name _____
Regents Physics
Period _____

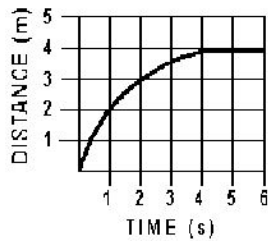
Date _____
Measure & Math WS 6R
Mr. Moy

Motion Graphs Practice

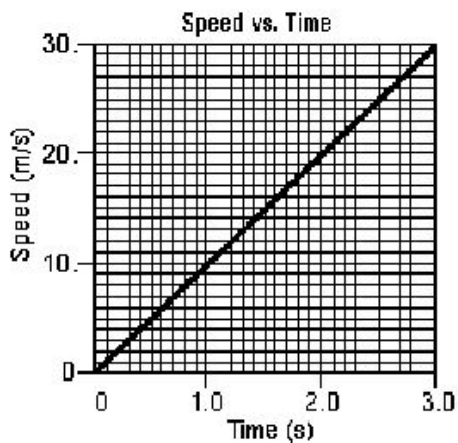
1. The graph below represents the motion of a body moving along a straight line. According to the graph, which quantity related to the motion of the body is constant?



2. The graph below represents the relationship between distance and time for an object. What is the *instantaneous* speed of the object at $t = 5.0$ seconds?



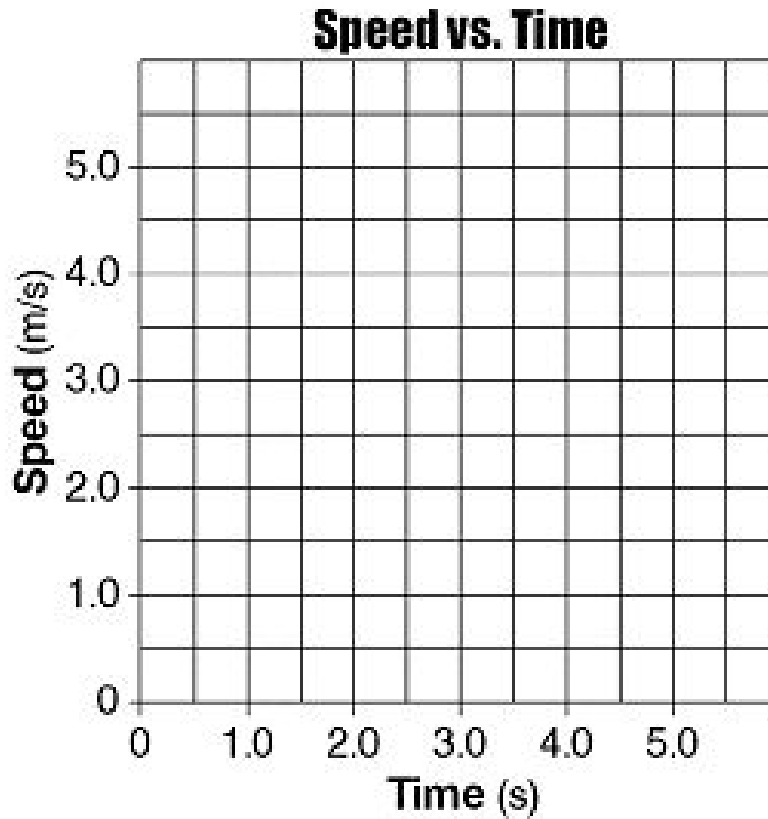
3. The graph below represents the relationship between speed and time for a car moving in a straight line. What is the magnitude of the car's acceleration?



4. The data table below describes the motion of an object moving in a straight line.

DATA TABLE

Time (s)	Speed (m/s)
0.0	0.0
1.0	1.2
2.0	2.7
3.0	3.3
4.0	5.0
5.0	5.6



- Plot the data points on the grid provided.
- Draw the line of best-fit on the graph.
- On the same grid sketch a line representing an object decelerating uniformly in a straight line.
- Based on your line of best fit, what is the acceleration of the object?