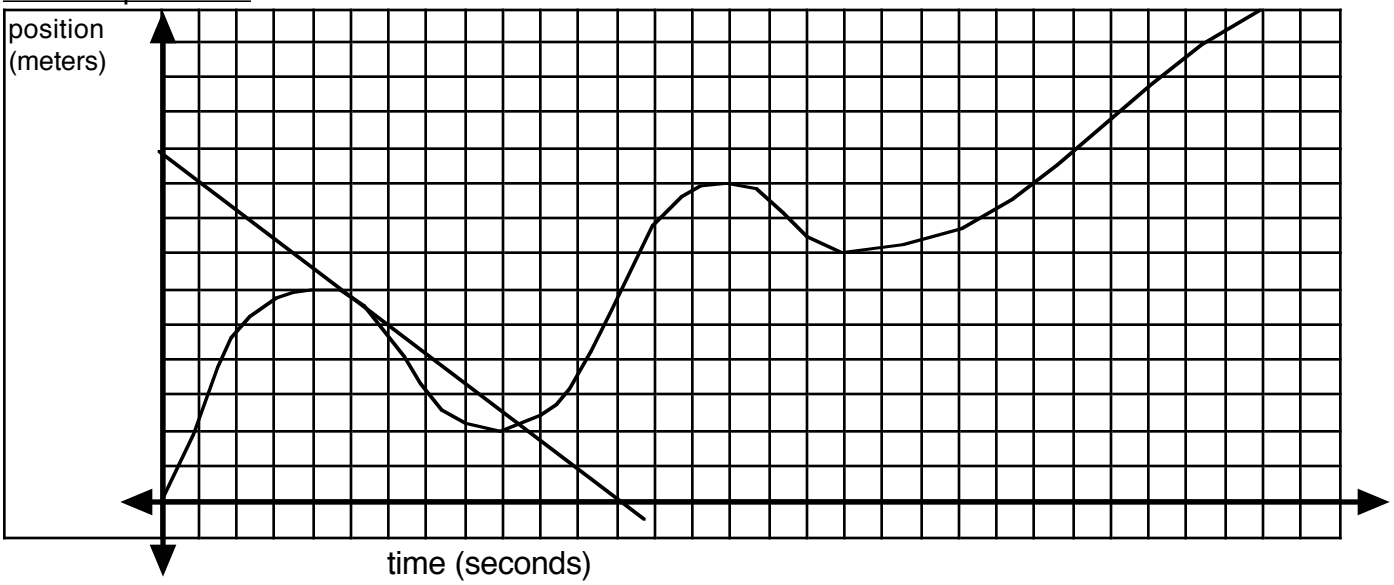
Practice problems



1. Calculate the average speed of the object over each interval.
   a) 1 s to 10 s b) 2 s to 8 s c) 3 s to 7 s d) 4s to 6 s

   d = 2 to d= 2.5 .5/9 = .0556 m/s
   d = 2 to d = 2.2 .2/6 = .033 m/s
   d=5.7 to d=3 -2.7/4 = -.675 m/s
   d=6 to d=4.5 -1.5/2 = -.75 m/s

2. Find the instantaneous speed of the object at 5 seconds.
   Approximately -0.8 m/s

3. Draw a representation of that speed on the graph.
   It is the tangent line, with a slope of approximately 4/5

4. Write a limit representing the instantaneous speed.

$$\lim_{\Delta x \to 0} \Delta y/\Delta x$$