

NAME _____

PERIOD _____

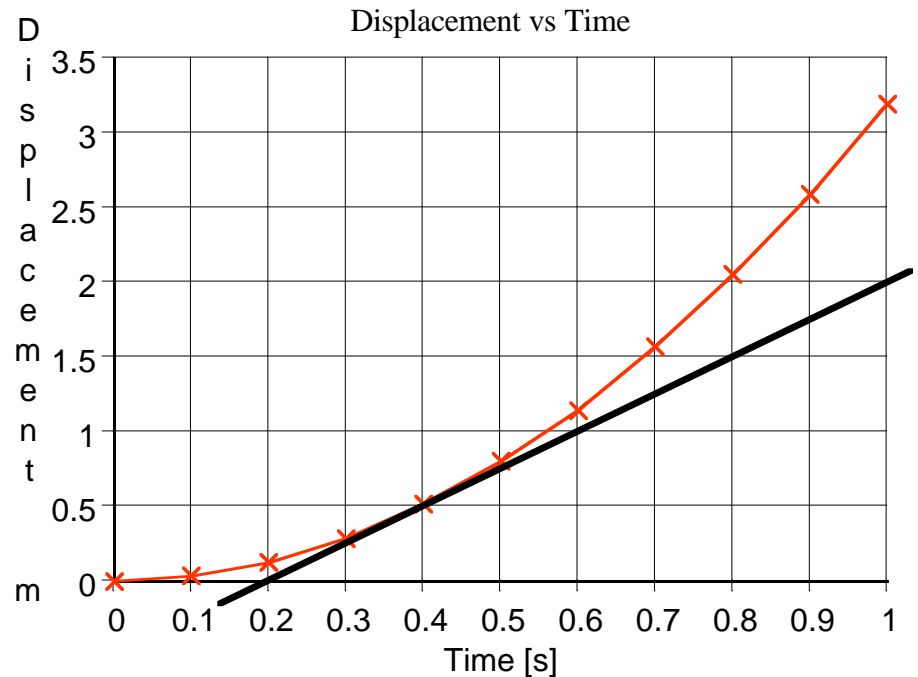
PHYSICS HOMEWORK QUIZ #2D

GRAPHICAL ANALYSIS

Each of the following questions refers to the graph shown at the right which plots the displacement of an object as a function of time.

1. What is the slope of this curve at $t = 0.4$ seconds? Explain! [3 pts]

2. According to this graph how is the displacement related to the time that this object has been moving? Explain! [3 pts]



3. What will be the physical significance of the area under this graph? Explain! [3 pts]

4. What will be the velocity of this object at $t = 0.9$ seconds? Explain! [3 pts]

5. What will be the physical quantity represented by the area under the graph to the right? [3 pts]

Decay Rate in
[atoms per second]

