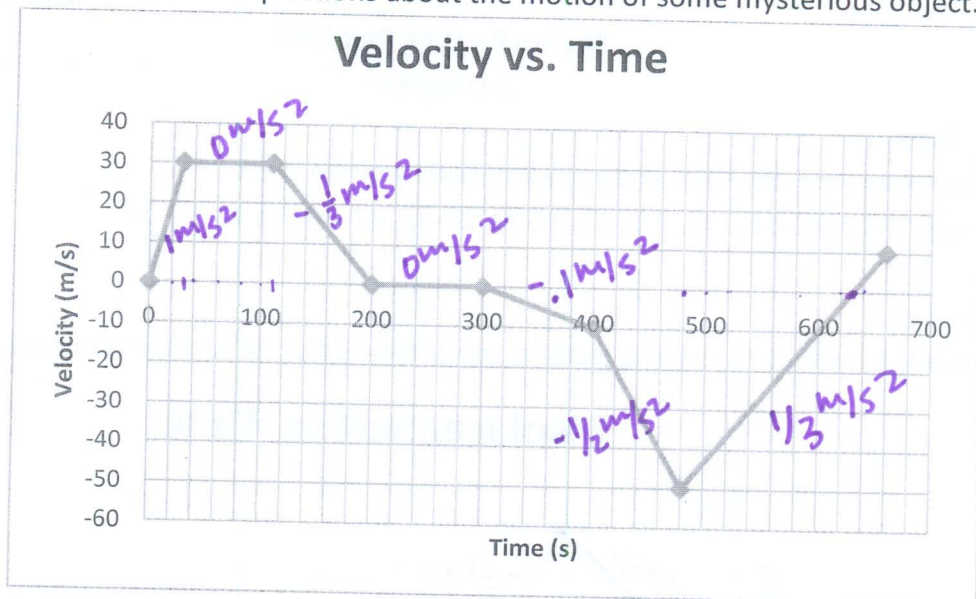
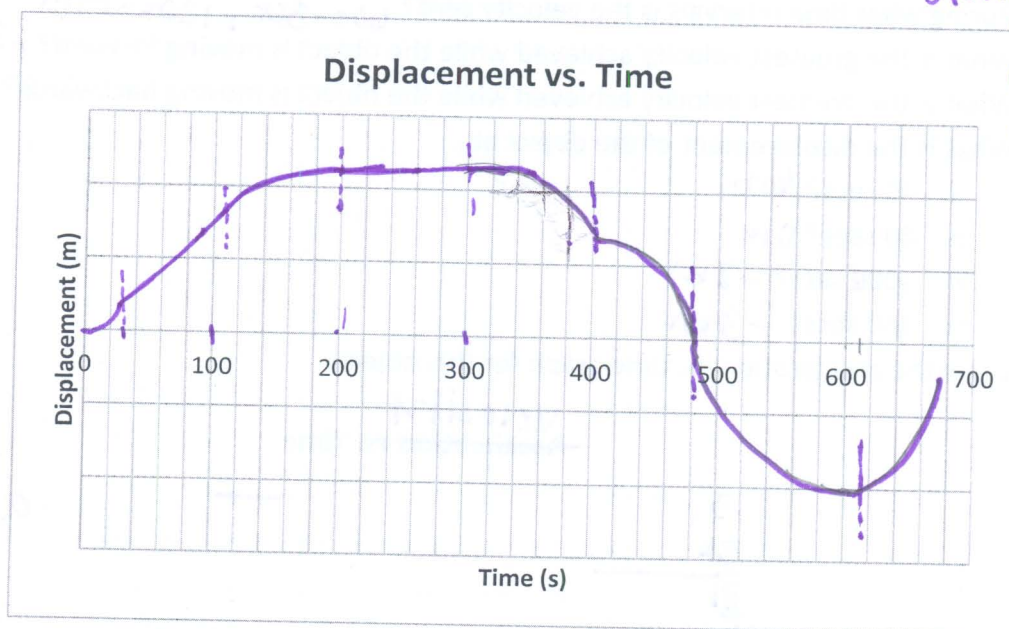


2. Use the graph below to answer questions about the motion of some mysterious object.



- During what time is the object's velocity zero? $t=0, 200-300, 660s$
- What is the maximum velocity of the object while travelling forwards? 30 m/s
- When is the object moving the fastest? $480s$
- During which time intervals is the object a speeder? $30s-110s, 200s-300s$
- During which time intervals is the object an accelerator? $0-30s, 110-200, 300-660$
- When during which time intervals is the object stopped? $200s-300s$
- During which time interval does the object have the highest rate of acceleration? $0-30s$
- What is happening to the object during the time interval 480s-660s? $\text{moving backward slowing to a stop \& going forward}$
- Sketch the displacement vs. time graph:



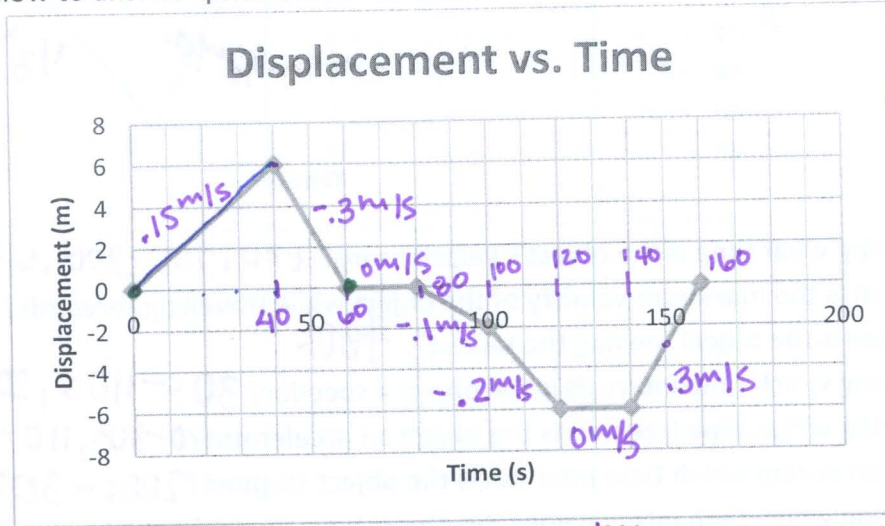
Physics Practice Problems
1-D Motion

Optional Book Work:

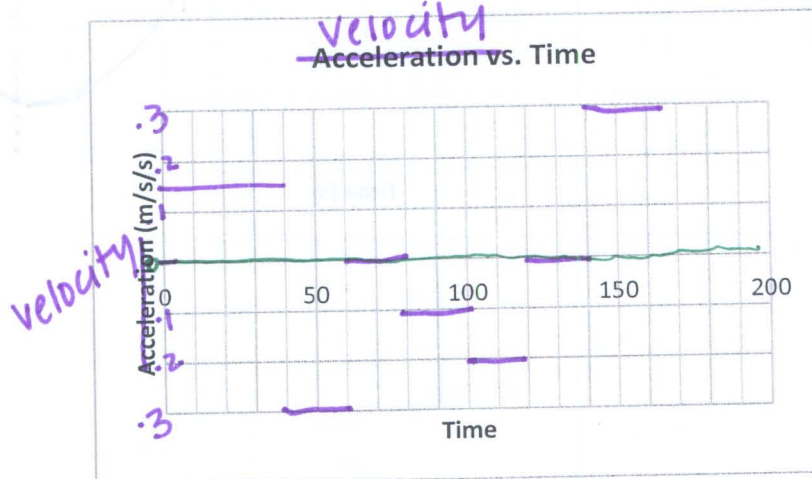
All problems are taken from the end of the chapter review in the book.
The problems begin on page 62. #3, 5-9, 13, 21-22, 26-32, 37, 39, 41-43, 54, 57

Additional Practice:

1. Use the graph below to answer questions about the motion of some mysterious object:



- What is the velocity of the object for the first 40 sec? $\frac{6m}{40s} = 0.15m/s$
- What is the velocity of the object from 40 s -60s? $\frac{-6}{20s} = -0.3m/s$
- During what time intervals is the velocity zero? 60s-80s, 120s-140s
- What is the greatest velocity achieved while the object is moving forward? 0.3m/s
- What is the greatest velocity achieved while the object is moving backwards? -0.3m/s
- What is the displacement of the object at...
 - 40 secs? 6m
 - 60 secs? 0m
 - 100 secs? -2m
 - 150 secs? -3m
- Draw the acceleration vs. time graph for this object:



a always = 0