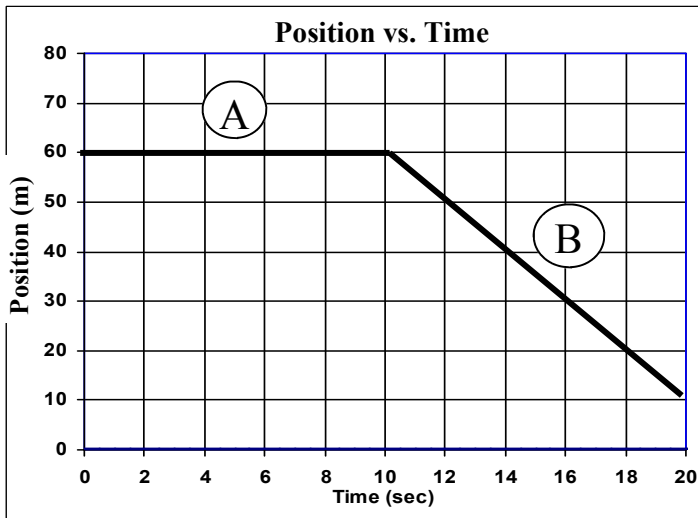


2012 PreAP Linear Motion 4

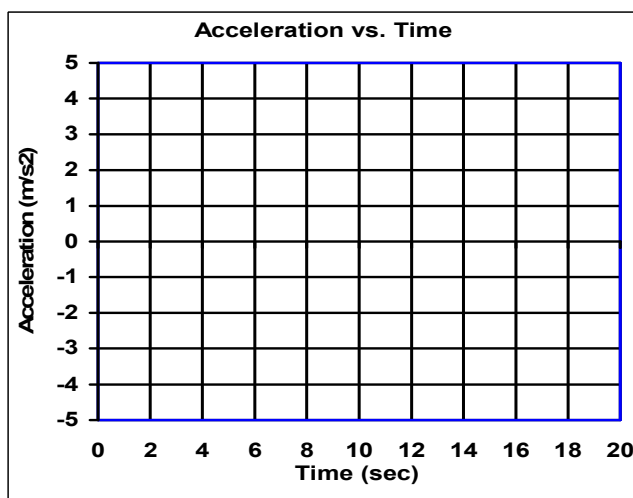
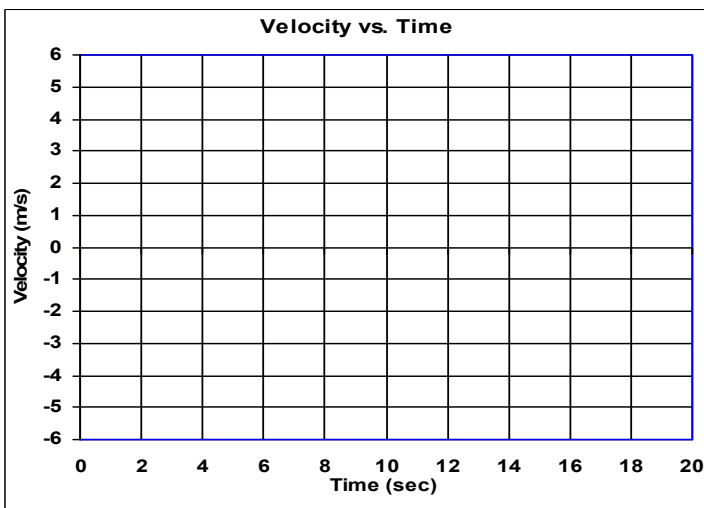
- Convert the following:
 - 2.8 weeks to minutes
 - 945×10^{-5} MHz to mHz (mega to milli):
 - $1,506 \times 10^4$ cL to GL:

- Which axis: vertical or horizontal?

A. <input type="checkbox"/> Is the dependent variable?	C. <input type="checkbox"/> Is the independent variable?
B. <input type="checkbox"/> Is the manipulated variable?	D. <input type="checkbox"/> Is the responsive variable?



- Find the slope of line segment A.
 - * Find the slope of line segment B.
 - Graph both of these line segments on the velocity graph below.
 - Determine the acceleration of each line segment and graph them on the acceleration graph below.



4. B. 945×10^{-5} MHz to mHz (mega to milli):

$$945 \times 10^{-5} \text{ MHz} \times \left(\frac{10^3 \text{ mHz}}{1 \text{ MHz}} \right) = 945 \times 10^{-2} \text{ mHz} = 9.45 \times 10^0 \text{ mHz}$$

Answers:
 1B) Answer: 9.45×10^0 mHz. If you didn't get the answer, try again. If you STILL don't get it, HOW to do the problem is at the bottom of this page. 3B: the slope is negative because the object is moving back toward the origin.