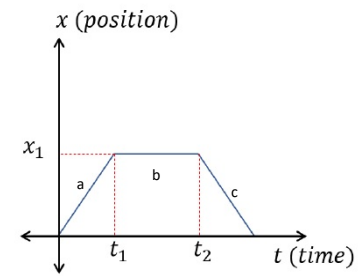


**POD #11**

What was a motorcycle's acceleration that went from 0 to 40 m/s in 5.2 seconds?

**POD #12**

Explain in words what is happening during each segment (a, b, and c) of the graph.

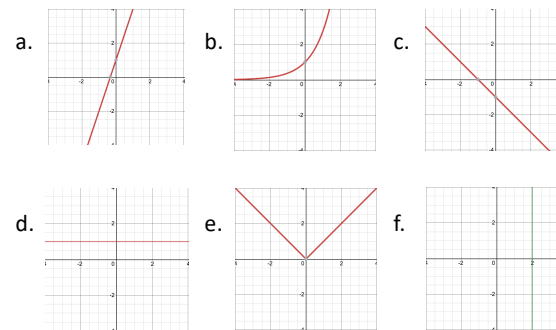


**POD #13**

Do heavier objects fall faster than light ones?

Which graphs have a constant rate of change?

**POD #14**



**POD #15**

Sketch the Position-time graph for each situation.

- Object is still
- Object moves towards origin at constant  $V$
- Object moves away from origin slowly but gradually speeds up

**POD #16**

My school starts early at 7:30 am. Each class is 1 hour 7 minutes long with 8 minutes between classes. There are five classes and 42 minutes for lunch between third and fourth class period. What time is it at the end of the day ( $t_f$ )?

**POD #17**

What are independent and dependent variables? Give some examples of each.

**POD #18**

Plot the following points and generate a best fit line. Write the equation of the line in  $y=mx + b$  form

(0, 0)	(1.0, 3.2)	(2.0, 5.9)
(4.0, 11.8)	(6.0, 18.3)	(8.0, 23.6)

**POD #19**

A ship lowers its anchor at a rate of 11 fathoms per minute. What is this in metres per second?

**POD #20**

- a. Find the x and y component of the vector that goes from the origin to (6, 8)
- b. Calculate the magnitude of the vector.
- c. Calculate the vector's direction.