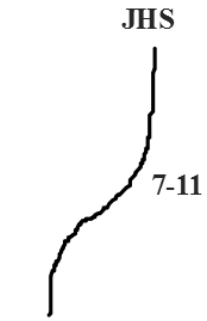
Stories from Graphs

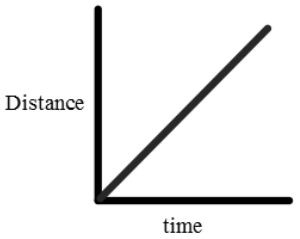
Name: _____
Period: _____

The graphs represent different trips Maya made from home to Jordan High School.
Distance is measured from home to Jordan High School. (D = 0 is home, t = 0 is the starting time)

Use *complete* sentences for each explanation. Sentences ***start*** with a ***capital letter*** and ***end*** with ***a period***.



1) What did Maya do to create a graph that looks like this?

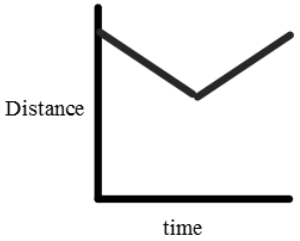


Explain:

_____

_____

2) What did she do to create a graph that looks like this?

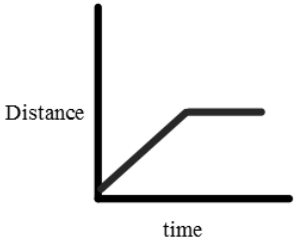


Explain:

_____

_____

3) What did she do to create a graph that looks like this?

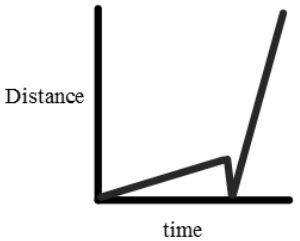


Explain:

_____

_____

4) What did she do to create a graph that looks like this?



Explain:

_____

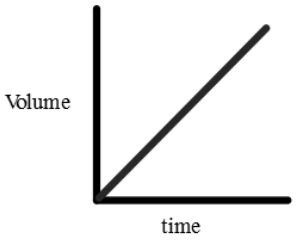
_____

Name: _____
Period: _____

Perry, the platypus, bought a fish tank. The following graphs represent the amount of water in the fish tank.

Use *complete* sentences for each explanation. Sentences ***start*** with a ***capital letter*** and ***end*** with ***a period***.

1) What did Perry do to create a graph that looks like this?

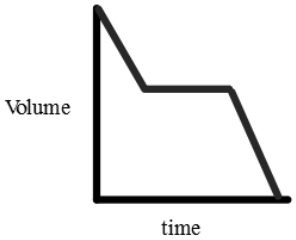


Explain:

_____

_____

2) What did he do to create a graph that looks like this?

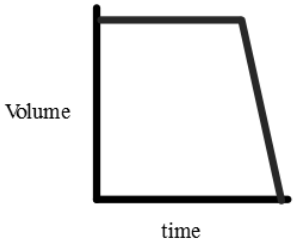


Explain:

_____

_____

3) What did he do to create a graph that looks like this?

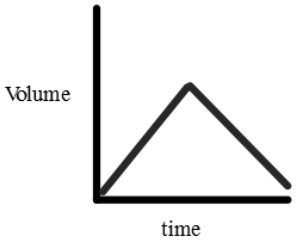


Explain:

_____

_____

4) What did he do to create a graph that looks like this?

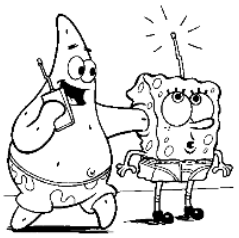


Explain:

_____

_____

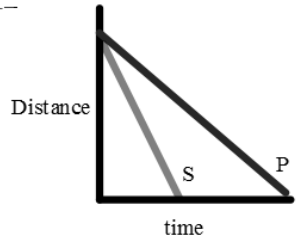
These graphs represent trips taken by two friends, Sponge Bob and Patrick.
The distance is measured from Sponge Bob's home to the Krusty Crab restaurant.
S = Sponge Bob and P = Patrick. D = 0 is at home, and t = 0 is their starting time.



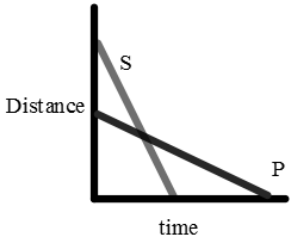
Krusty Krab

SB house

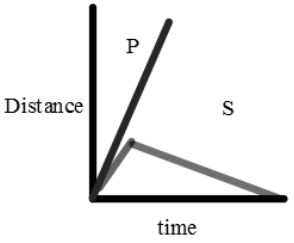
Graph 1



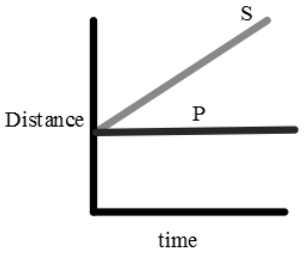
Graph 2



Graph 3



Graph 4



Use *complete* sentences for each explanation.

A) For graph 1: Who traveled faster - Sponge Bob or Patrick?

Explain: _____

B) For graph 2: Who started farther away? What does the intersection mean?

Explain: _____

C) For graph 3: Describe the trips of Sponge Bob and Patrick.

Explain: _____

_____

D) For graph 4: Describe the similarities and differences in the trips of Sponge Bob and Patrick.

Similarities: _____

Differences: _____

Solve for y using addition and subtraction. **Show *all* of the steps necessary to complete *each* problem.**

1. $4x + y = 2$
2. $y - 2x = 6$
3. $y - 3x = 2$

4. $y + 5x = 10$
5. $y + x = 7$
6. $y - 3x = 9$

Solve for y using division. *(Be sure to watch the negative signs and subtractions signs)*

7. $4y = 8x - 4$
8. $-7y = -49x + 56$
9. $8y = 48x + 32$

Simplify each expression.

10. $\frac{6x+12}{3}$
11. $\frac{x-10}{5}$
12. $\frac{4x-24}{8}$
13. $\frac{x+20}{4}$
14. $\frac{28x-14}{7}$