Name

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Motion Graphs

##  Data set 1

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 Time Distance

(Hours) (miles)

 1 9

 2 12

 3 15

 4 18

 5 21

 6 24

## Explain the motion of the object in words:

## Questions

a. Where did the object start?

b. How fast is the object going? In what direction?

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**Create a Velocity vs time graph from the information above**

c. After 10 hours of travel where would the object be?

## Data set 2

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Time Distance

(min.) (meters)

 1 27

 3 21

 4 18

 6 12

 8 6

## Explain the motion of the object in words:

## Questions

a. Where did the object start?

b. How fast is the object going? In what direction?

**Create a velocity vs time graph from the information above**

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c. After 10 min. of travel where would the object be?

## Data set 3

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Time Distance

(Seconds) (meters)

 1 3

 2 0

 4 6

 6 12

 7 15

## Explain the motion of the object in words:

## Questions

a. Where did the object start?

b. How fast is the object going? In what direction?

**Create a velocity vs time graph from the information above**

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c. After 10 seconds of travel where would the object be?

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 Using the d vs. t graph, create a v vs. t graph.

Explain the motion of this object in words:

The y-axis represents position in meters and the x-axis represents time in seconds.



During which intervals was he traveling in a positive direction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

During which intervals was he traveling in a negative direction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

During which interval was he resting in a negative location? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

During which interval was he resting in a positive location? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 During which two intervals did he travel at the same speed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

During which interval was he traveling the fastest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

During which interval was he traveling his slowest but was still moving? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_