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1. What must you do to create a horizontal line on a distance-time graph?
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2. How do you walk to create a straight line that slopes up?
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3. How do you walk to create a straight line that slopes down?
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$\qquad$
4. How do you move so the graph goes up steeply at first, and then continues up gradually?
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$\qquad$
5. How do you walk to create a U-shaped graph?
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$\qquad$
$\qquad$
$\qquad$
6. a. Which object is moving faster, A or B?
b. Which starts ahead, A or B? ___ Define what you mean by "ahead".
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c. What does the intersection mean?
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$\qquad$
7. a. Which object was moving faster, A or B?
b. Which object has a negative velocity according to the convection we have established. $\qquad$
8. a. Which object was moving faster, A or B ? $\qquad$

Define what you mean by "ahead".

2. D
3.
4.

5.

6.

7.

8.


Sketch the distance (position) - time graph corresponding to each of the following descriptions of the motion of an object.
9. The object moves with a steady (constant) velocity away from the origin.
10. The object is standing still
11. The object moves with a steady (constant) velocity toward the origin for 5 seconds and then stands still for 5 seconds.

12. The object moves with a steady velocity away from the origin for 5 seconds, then reverses direction and moves at the same speed toward the origin for 5 seconds.
12

D
$i$
s
a

Time(sec)
13. The object moves away from the origin, starting slowly and speeding up.

14. Object A moves away from the origin at a constant speed. Object B moves in the opposite direction at the same speed. They pass at 5 seconds.



10



