**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Speed and Acceleration Review**

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| Speed (S) or Velocity (V) | Acceleration or no Acceleration | | | Match the variables with quantities. | |
| \_\_\_ A bike goes 25 m/s toward main street.  \_\_\_ A person walks 4 mph.  \_\_\_ A plane flies 200 m/s.  \_\_\_ A bird flies 100 mph due south. | \_\_\_\_40 mph in straight line  \_\_\_\_ traveling in a circular path at a constant 15mph  \_\_\_\_changing speed from 150mph to 60mph  \_\_\_\_ a plane flying north at 135mph turns and flies east | | | 1. a = \_\_\_\_\_\_\_\_\_ 2. S = \_\_\_\_\_\_\_\_\_ 3. V= \_\_\_\_\_\_\_\_\_ 4. D = \_\_\_\_\_\_\_\_\_ 5. T= \_\_\_\_\_\_\_\_\_ | 23 sec  3 m/s2  23 meters/sec  23 meters  23 mph north |
| A person starts running from and travels 20meters north then travels south 10 meters.  What is the distance traveled? \_\_\_\_\_\_\_  What is the displacement? \_\_\_\_\_\_\_\_ | | What is the speed of a beetle that travels 140 centimeters in 30 seconds? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
| See the source image  Distance  Distance  Distance | | **Use the time distance graphs to answer the following questions.**  Which graph represents an object moving at a constant speed away from the reference point? \_\_\_\_\_\_\_\_\_\_\_  Which graph shows an object at rest? \_\_\_\_\_\_\_\_\_  Which graph shows an object moving at a constant speed back towards the reference point. \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Explain what type of motion is happening in graph D. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
|  | | | Which line segments show the object at rest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  At what point on the graph does the object 1st change direction?  \_\_\_\_\_\_  What is the total distance the object traveled? \_\_\_\_\_\_\_\_\_\_\_\_\_  When was the object traveling faster, between 0-A or between D-E? \_\_\_\_\_\_\_\_\_\_How do you know? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| **See the source imageUse the graph to the right to answer the following questions.**  Which segment shows the object at rest? \_\_\_\_\_\_\_\_\_\_\_\_  Describe the motion between points 0-A?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Describe the motion between points B—C?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Describe the motion between points E-F?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| \_\_\_ \_\_\_ shows object with positive acceleration  4  3  2  \_\_\_\_shows object at rest  \_\_\_ shows object at a constant speed  \_\_\_\_shows object with negative acceleration | | |

1