**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 meters23 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 imageDistanceDistanceDistance | **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 432\_\_\_\_shows object at rest\_\_\_ shows object at a constant speed\_\_\_\_shows object with negative acceleration |

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