**Kinematics: Motion with Graphs Quiz**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_**

I. Use the following graphs to solve for the following. Show your work

**Find the following:**

1. Average velocity between 0-5s \_\_\_\_\_\_\_\_\_\_
2. Average velocity between 2-6s \_\_\_\_\_\_\_\_\_\_
3. Instantaneous velocity at the 1s mark \_\_\_\_\_\_\_\_\_
4. Instantaneous velocity at the 4s mark \_\_\_\_\_\_\_\_\_
5. Acceleration at the 11s mark \_\_\_\_\_\_\_\_\_
6. Total displacement for the first 6 seconds \_\_\_\_\_\_\_
7. Total distance (12s) \_\_\_\_\_\_\_\_\_\_
8. Total displacement (12s) \_\_\_\_\_\_\_\_\_\_\_\_\_



1. Instantaneous acceleration at the 2 sec mark \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Average acceleration between 4-8s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Final displacement \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Total distance covered \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II. For the following graphs, describe the motion of a given object. Include:

 a. If the object is at **REST**, moving away (**+v**) or moving back (**-v**)

 b. If the object is moving [+v or –v], specify if the object is:

 1. Moving at a constant velocity [**CV**]

 2. Accelerating [**+a**]

 3. Decelerating [**-a**]

A

B

C

D

E

F



A-B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B-C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C-D\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D-E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-F \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



A

B

C

D

E

F

G

A-B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B-C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C-D\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ D-E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-F \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ F-G\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

