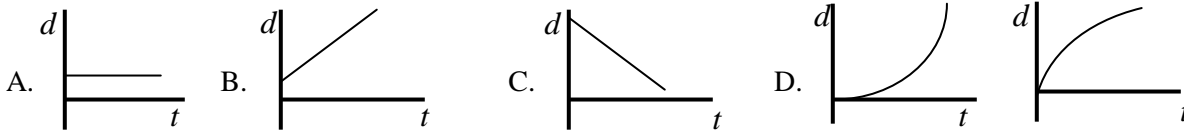


Kinematics Graphs--Acceleration

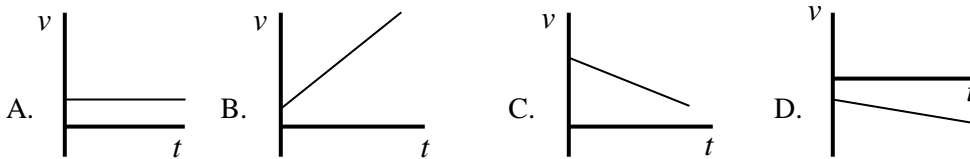
Name _____ Period _____ Date _____

Use the following **position vs. time** graphs for the next five questions. You may have more than one letter for your answer.

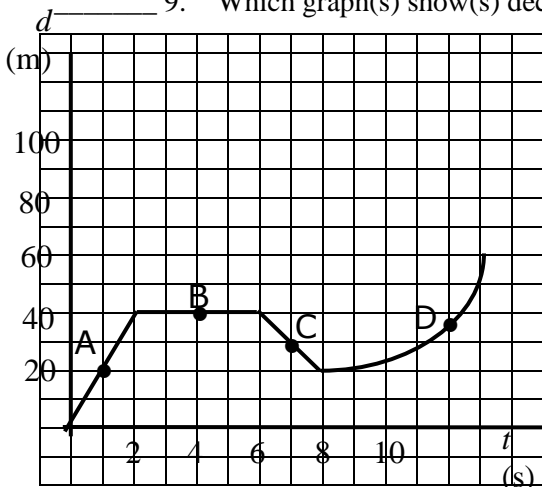


- _____ 1. Which graph(s) show(s) uniform motion (constant velocity)? **(A) B, C**
- _____ 2. Which graph(s) show(s) no motion? **A**
- _____ 3. Which graph(s) show(s) negative velocity? **C**
- _____ 4. Which graph(s) show(s) a positive acceleration? **D**
- _____ 5. Which graph(s) show(s) a negative acceleration? **E**

Use the following **velocity vs. time** graphs for the next four questions



- _____ 6. Which graph(s) show(s) uniform motion? **A**
- _____ 7. Which graph(s) show(s) positive acceleration? **B**
- _____ 8. Which graph(s) show(s) motion in the negative direction? **D**
- _____ 9. Which graph(s) show(s) decreasing speed? **C**



Using the position vs. time graph to the left, answer the following questions. Assume forward to be the positive direction, backward to be negative. Only one answer is correct.

- _____ 10. At point A, the object is (a) moving forward (b) moving backward (c) stopped (d) accelerating **a**
- _____ 11. At point B, the object is (a) moving forward (b) moving backward (c) stopped (d) accelerating **c**
- _____ 12. At point C, the object is (a) moving forward (b) moving backward (c) stopped (d) accelerating **b**
- _____ 13. At point C, the object's speed is (a) 2 m/s (b) 4 m/s (c) 5 m/s (d) 10 m/s **d**
- _____ 14. At point D, the object is (a) speeding up (b) slowing down (c) going uphill **a**

Using the velocity graph to the right, answer the following questions

- _____ 15. At point D, the object is (a) moving forward (b) moving backward (c) decreasing its speed (d) below ground level **b**
- _____ 16. At point C, the object is (a) moving forward (b) moving backward (c) stopped (d) going downhill **c**
- _____ 17. At point B, the object is (a) moving forward (b) moving backward (c) stopped (d) accelerating **a**
- _____ 18. At point A, the object's acceleration is **5m/s²**
- _____ 19. The displacement of the object at point D is **60m**

