

Honors Physics Second Semester Exam Study Packet

1. What value can be determined from the slope of a distance vs. time graph?

- a) **velocity** b) acceleration c) gravity d) total distance e) displacement

2. Which of the following defines the line on the graph shown?

- a) constant velocity
b) **constant acceleration**
c) decreasing velocity
d) slowing down



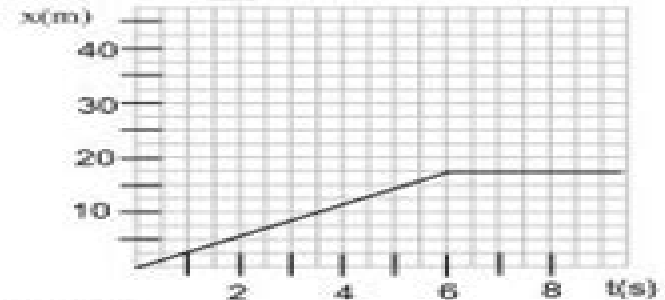
3. What does the graph shown indicate about the object in motion?

- a) It has a constant velocity
b) It is speeding up
c) **It is slowing down**
d) It is not moving
e) none of these



4. For the following distance vs. time graph:

- a) What is the average velocity between 0 and 6 seconds?
(**2.9m/s**)
b) What is the average velocity between 6 and 8 seconds?
(**0m/s**)
c) How far has the object travelled in 5 seconds?
(**15m**)



5. A rocket is launched with an initial velocity of 75 m/s at a 27° angle.

- a) How high up does the rocket go? (**59m**)
b) What is its speed at the peak of its trajectory? (**66.8 m/s**)
c) How much time passes before it hits the ground? (**6.95s**)

6. A ball is thrown horizontally with an initial velocity of 10 m/s off the roof of a building.

What time will it take for the ball to reach the ground 20 meters below? (**2.02s**)

7. What minimum speed must a roller coaster have at the top of a 15 meter loop in order to remain on the track? (**12.12m/s**)

8. A 15 gram dart is pushed into a spring-loaded dart gun and the spring device compressed 5.0 cm before it is shot at a 27° angle, landing 15 meters away on the same level it was shot.

- a) What was the initial velocity of the dart? (**13.5 m/s**)
b) What was the kinetic energy of the dart? (**1.37J**)
c) What was the spring constant of the toy gun? (**1090 N/m**)

9. A 25 kg child runs up a flight of stairs a vertical distance of 3.5 meters in 5 seconds.

- a) How much work did he do? (**858 J**)
b) What was his change in potential energy? (**858 J**)
c) What power did he generate? (**171.5 W**)

10. A rock is thrown horizontally off the top of a cliff 120 m high, landing 25 m from the base.

- a) How much time passed before the ball hit the ground? (**4.95 s**)
b) What is the initial velocity of the ball in the x and y directions? (**5.05 m/s**)
c) What was the initial and final horizontal acceleration of the ball after the throw? (**$a_x = 0$**)

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