

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



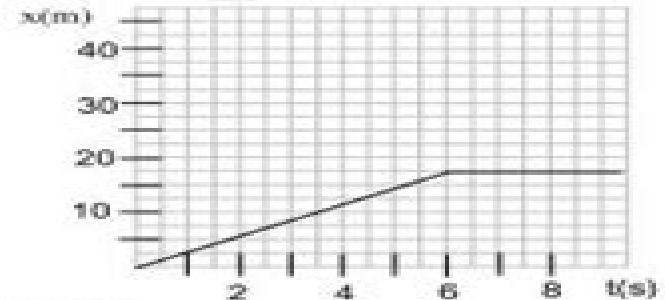
3. What does the graph shown indicate about the object in motion?

- 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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BM King



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buffers typically consist of an acid base pair with the acid and base differing by the presence or absence of a proton a conjugate acid base pair for instance one of the buffers that maintain the ph of human blood involves carbonic acid H_2CO_3 and its conjugate base the bicarbonate ion HCO_3^-

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an acid and a base react not to produce a salt and a solvent but to form a new acid and a new base the concept of neutralization is thus absent brønsted lowry acid base behavior is formally independent of any solvent making it more all encompassing than the arrhenius model

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acid base titration difference between acid and base acids and bases definition an acid is any hydrogen containing substance

that is capable of donating a proton hydrogen ion to another substance a base is a molecule or ion able to accept a hydrogen ion from an acid acidic substances are usually identified by their sour taste

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a binary acid is an acid that consists of hydrogen and one other element the most common binary acids contain a halogen the acid name begins with the prefix hydro followed by the base name of the anion followed by the suffix ic

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