

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



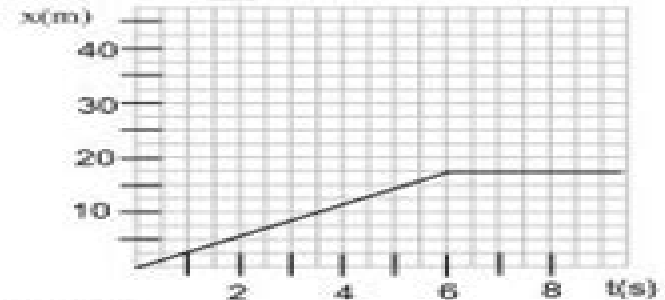
3. What does the graph shown indicate about the object in motion?

- 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? **($a_x=0$)**

Honors Physics Second Quarter Final Study Guide

Michael Rajnik



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Table of Contents Honors Physics Second Quarter Final Study Guide

1. Understanding the eBook Honors Physics Second Quarter Final Study Guide
 - The Rise of Digital Reading Honors Physics Second Quarter Final Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Honors Physics Second Quarter Final Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Honors Physics Second Quarter Final Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Honors Physics Second Quarter Final Study Guide

- Personalized Recommendations
- Honors Physics Second Quarter Final Study Guide User Reviews and Ratings
- Honors Physics Second Quarter Final Study Guide and Bestseller Lists
- 5. Accessing Honors Physics Second Quarter Final Study Guide Free and Paid eBooks
 - Honors Physics Second Quarter Final Study Guide Public Domain eBooks
 - Honors Physics Second Quarter Final Study Guide eBook Subscription Services
 - Honors Physics Second Quarter Final Study Guide Budget-Friendly Options
- 6. Navigating Honors Physics Second Quarter Final Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Honors Physics Second Quarter Final Study Guide Compatibility with Devices
 - Honors Physics Second Quarter Final Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Honors Physics Second Quarter Final Study Guide
 - Highlighting and Note-Taking Honors Physics Second Quarter Final Study Guide
 - Interactive Elements Honors Physics Second Quarter Final Study Guide
- 8. Staying Engaged with Honors Physics Second Quarter Final Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Honors Physics Second Quarter Final Study Guide
- 9. Balancing eBooks and Physical Books Honors Physics Second Quarter Final Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Honors Physics Second Quarter Final Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Honors Physics Second Quarter Final Study Guide
 - Setting Reading Goals Honors Physics Second Quarter Final Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Honors Physics Second Quarter Final Study Guide

- Fact-Checking eBook Content of Honors Physics Second Quarter Final Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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