

## Physics Homework 1 Kinematics Displacement Velocity

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### Physics Homework 1 Kinematics Displacement

1. You walk exactly 250 steps North, turn around, and then walk exactly 400 steps South. How far are you from your starting point? 2. An automobile travels 25 miles West, then goes 45 miles East and finally goes 15 miles West. How far will this car

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### PHYSICS HOMEWORK #1 KINEMATICS DISPLACEMENT & VELOCITY

physics homework # 1 kinematics DISPLACEMENT & VELOCITY ANSWERS TO THE OPPOSITE SIDE: 11. 2.0 m/s/s 12. -20.0 mph 13. 0.250 m/s 2 14. -7.00 m/s 2 15. 63 m/s

### PHYSICS HOMEWORK # 1 KINEMATICS DISPLACEMENT & VELOCITY

Homework Helpers: Physics 1 Kinematics. We begin our study of physics with the branch called mechanics. Mechanics is the study of the motion of objects. Classical, or Newtonian, mechanics deals with the motion of macroscopic, or relatively large, objects. Quantum mechanics deals with the motion of microscopic particles. Kinematics is the study of the motion of objects without regard for the ...

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### Physics Homework 1 Kinematics Displacement Velocity ...

13. At what times  $t$  [other than at  $t=0$ ] was the displacement of the car again exactly zero? PHYSICS HOMEWORK #6 KINEMATICS GRAPHICAL ANALYSIS Answers to opposite side: 1. -10.0 m/sec 2. zero 3. -2.0 m/sec<sup>2</sup> 4. cannot be determined because this point lies on two different lines with two different slopes! 5. 100 m 6. zero 7. -50 m 8. 1150 m 9. 1450 m

### PHYSICS HOMEWORK #1 KINEMATICS DISPLACEMENT & VELOCITY

Physics Homework 1 Kinematics Displacement Velocity Homework Statement A car starts from a point and returns to the same point after 160 seconds. During this time the car traveled at an average speed of 10 m/s.

### Physics Homework 1 Kinematics Displacement Velocity

[Physics] Displacement Kinematic Equations A 1000 kg aircraft going 25 m/s collides with a 1500 kg aircraft that is parked and they stick together after the collision and are going 10 m/s after the collision.

### [Physics] Displacement Kinematic Equations : HomeworkHelp

Physics Homework 1 Kinematics Displacement Velocity When displacement is given instead of time, acceleration can be calculated with the formula:  $a = (v^2 - u^2) / 2s$ . Motion Graphing Motion Graphs are only useful for linear motion (forward/backwards).

### Physics Homework 1 Kinematics Displacement Velocity

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### Physics Homework 1 Kinematics Displacement Velocity

This is because the motion will be taking place along a single axis, so we can indicate directions with + and - signs. Typically, we consider a displacement in the positive direction to be "forwards" and a displacement in the negative direction to be "backwards." Example 1

### Acceleration - Kinematics - Homework Helpers: Physics

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### Physics Homework 1 Kinematics Displacement Velocity

UNIT Kinematics 1. A Displacement DATE Hedizin NAME Scenario Angela is running to the bus 15 meters away. sm lom 15m Using Representations PART A: On the diagram to the right, label Angela's position with zero meters and label the position of the bus door 15 meters.

### Solved: UNIT Kinematics 1. A Displacement DATE Hedizin NAM ...

PHYSICS HOMEWORK #12 KINEMATICS TWO DIMENSIONAL KINEMATICS Answers to opposite side: 1. 472 steps at 32.0 O NE 2. 54.1 miles at 56.3 O NW 3. 15 mph 4. -167 km/hr 5. 43.0 mph 6. 19 mph downstream 7. 5 mph upstream 8. 13.9 mph at 30.3 O downstream 9. 239 mph at 10.8 O SW 10. 532 km/hr at 7.25 O SE 11a. 12.9 sec b. 24.4 sec

### PHYSICS HOMEWORK 11 KINEMATICS DISPLACEMENT VELOCITY Be ...

1. You walk exactly 250 steps North, turn around, and then walk exactly 400 steps South. How far are you from your starting point? 2. An automobile travels 25 miles West, then goes 45 miles East and finally goes 15 miles West.

### Kinematics One Dimension.pdf - PHYSICS HOMEWORK#1 ...

Example of Distance vs Displacement: A runner going around a 400m circular race track. Even if the runner runs a distance of 400m around the racetrack, since they end up at the start/finish line, their total displacement is 0m.

### Module 1: Kinematics

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### Physics Homework 1 Kinematics Displacement Velocity

Topic 3.1 – 11 SENIOR 3 PHYSICS • Topic 3: Mechanics SKILLS AND ATTITUDES OUTCOME S3P-0-2c: Formulate operational definitions of major variables or concepts. Asking and Answering Questions Based on Data Students calculate  $\Delta t$  using  $\Delta t = t_{\text{final}} - t_{\text{initial}}$  from the activity on the facing page.

### TOPIC 3.1: KINEMATICS

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### Physics Homework 1 Kinematics Displacement Velocity

[AP Physics 1] Question on some Kinematics Problems A ship maneuvers to within 2500m of an island's 1800m high mountain peak and fires a projectile at an enemy ship 610m on the other side of the mountain.

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