Science 10 Monday May 15/17

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- 1. Assignment: Average Speed, Constant and Average Velocity Some still need to complete.
- 2. Check -> Worksheet: Position vs Time Graphs
 Answers are on the next few pages of this plan.
- 3. Acceleration P4
- 4. Comparing Directions of Velocity and Acceleration P1
- 5. Sample Problems Acceleration
- 6. Worksheet Acceleration
- 7. Test Physics Unit: Topics Given
 - -> Thursday or Friday this week

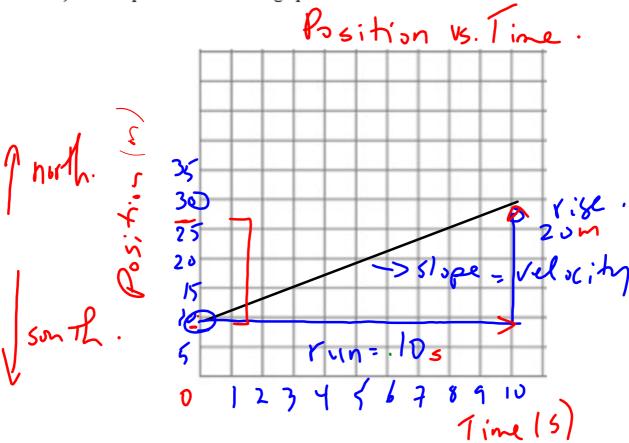
Science 10

Worksheet: Position vs Time Graphs

1. Robin, roller skating in a straight line north, was observed to be at the following positions at the following times:

X	
Time (s)	Position (m)
0.0	10
5.0	20
10.0	30

a) Draw a position versus time graph for the skater.

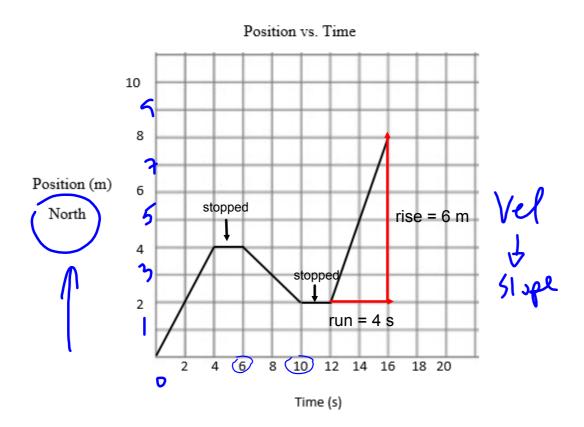


b) What type of motion does the skater have?

L> linear motion > uniform motion constant velocity

c) Calculate the velocity of the skater. Show your work

2. A position-time graph for a second skater is shown below.



a) How many times did the skater stop?

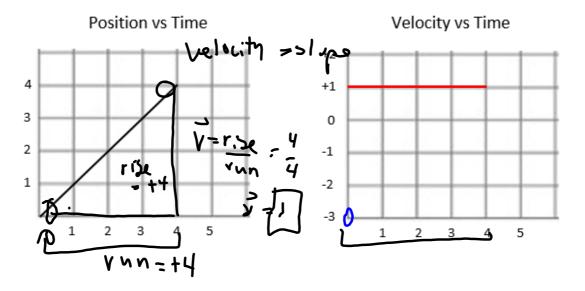
2

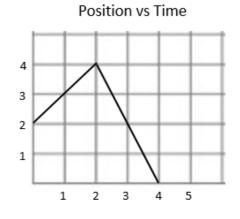
b) During what time interval did the skater move in a negative direction?

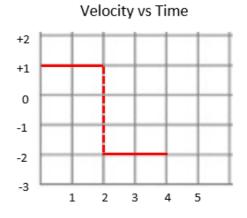
- c) What type of motion did the skater have between t = 12 s and t = 16 s?
- d) What was the maximum displacement of the skater?
- e) What was the maximum velocity of the skater?

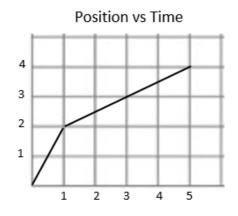
velocity =
$$\frac{\text{rise}}{\text{run}} = \frac{6 \text{ m}}{4 \text{ s}} = +1.5 \text{ m/s}$$

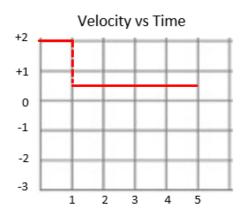
3. Draw the velocity vs time graphs for an object whose motion produced the position-time graphs shown below at the left.











Physics 112

Monday, May 15/17

- http://mvhs.nbed.nb.ca/
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- 1. SA U3S1 Work, No Work, Etc.
- 2. Worksheet Kinetic Energy and Kinetic-Energy Theorem Worksheet GPE and Work-GPE Theorem
- 3. Hooke's Law Continue
- 4. Elastic Limit
- 5. Elastic Potential Energy
- 6. Worksheet Hooke's Law and Elastic Energy Worksheet - Work, Types of Energy and Work-Energy Theorems
- 7. Concept Sheet U3S3 Systems and Energy Conservation

Physics 122 Monday, May 15/17

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Progress Reports

- 1. Questions? Worksheet -> Text: Page 536, PP #1-8
- 2. Projectiles Fired at an Angle Continue
- 3. Examples
- 4. Worksheets Projectiles HW
- 5. SA SHM and Projectiles Tentatively Thursday, May 17/17