

Science 10
Thursday May 18/17

<http://mvhs.nbed.nb.ca/>



<http://mvhs-sherrard.weebly.com/>



-
1. Assignment: Average Speed, Constant and Average Velocity
Some still need to complete.
 2. Check -> Worksheet - Acceleration
 3. Test - Physics Unit: Topics
-> Wednesday - Next Week
 4. Review for Test
-
5. Ecology Unit

Physics 112

Thursday, May 18/17

<http://mvhs.nbed.nb.ca/>



<http://mvhs-sherrard.weebly.com/>



*SA - Work, No Work. Etc.

1. Check -> Worksheet - PP #1-4, 6,7

2. [Worksheet - Extra Practice - Conservation of Energy](#)
[Worksheet - C7 Conservation of Mechanical Energy](#) } HW

3. SA - U3 S2&3

[Wednesday, May 24/17](#)

4. U3 S4 - Power and Efficiency

Physics 122

Wednesday, May 17/17

<http://mvhs.nbed.nb.ca/><http://mvhs-sherrard.weebly.com/>

-
1. Questions?
Worksheets - Projectiles
 2. SA - SHM and Projectiles 4 Prob.
Friday, May 19/17
 3. SA - Projectiles from Semester 2
(See Next Page for Problems . Answers are below.)
 4. Unit 3 - Electrostatics and Electric Circuits
-

SA - U2 - Proj. (2016)

#1. a) 1.0 s

b) $\vec{v}_x = 15 \text{ m/s}$

c) $\vec{v}_i = 18 \text{ m/s}$, 33° above hor.

d) $\vec{y} = +4.2 \text{ m}$

#2. a) 73.0 m

b) 37.5 m/s.

68.6°

below hor.

#3 a) 44m high

$(\vec{y} = -44\text{m})$

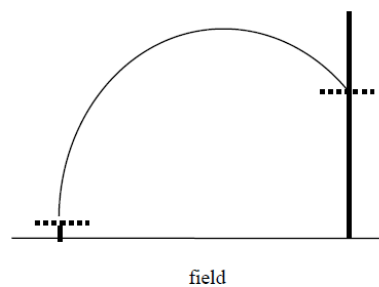
b) $x = 51\text{m}$

Physics 122
SA – U2 – Projectiles (Nov. 2016)

Name - _____ Date - _____

Solve these problems in the space provided. Show your work.

- From level ground, a football is thrown up at a certain angle. The ball is in the air 2.0 s and strikes the ground 30.0 m from where it was thrown.
 - How long does it take the football to reach its highest point? (1)
 - What was the football's velocity at its highest point? (3)
 - What was the ball's initial velocity? (6)
 - How far from the ground is the football when its vertical velocity component is 3.7 m/s upward? (3)
- A baseball is hit foul into the stands at the former Pac Bell Park. The ball is hit when it is 1.00 m above the playing field and leaves the bat at 40.0 m/s at 70.0° with the horizontal. The ball lands in seats 11.0 m above the playing field.
 - What is the maximum height reached by the ball above the playing field? (6)
 - What is the velocity of the baseball when it lands in the stands? (8)



- A canon ball fired horizontally from a cliff has a velocity directed at 60° below horizontal when it hits the ground 3.0 seconds later.
 - How high is the cliff? (5)
 - How far from the base of the cliff does the canon ball land? (7)