

# Physics 112

Monday, January 18/16

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

Textbook - ISBN

1. Review Problem #4
2. Test U3 - Attempt #2 - Wednesday
  - Be able to show assigned work completed.
  - Show corrections for attempt #1.
  - Try version #2 and get checked.
3. Worksheet - Refraction
4. Sample MC/Questions/Problems - Waves (MC #1 -> B)
5. Exam - Review Problems (84)
6. Review - Multiple Choice

Test U3 #2

1.  $m = 6.35 \text{ kg}$

2.  $v_f = 18 \text{ m/s}$

3.  $F = 1.8 \text{ N}$

4.  $E_0 = 1.85 \times 10^{15} \text{ J}$

5.  $W = 0 \text{ J}, F \perp d$

6. a)  $t = 1.37 \text{ min}$

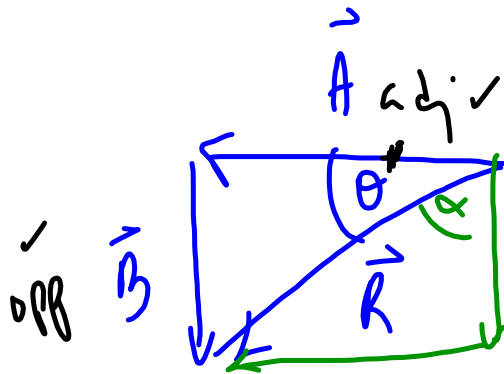
b)  $v = 0.190 \text{ m/s}$

7. a)  $E_{gf} = 0.153 \text{ J}$

b)  $\ominus$  work

P112 - Review Prob #4

$\vec{A} = 12.8 \text{ m/s, W}$  and  $\vec{B} = 8.89 \text{ m/s, S}$ . Find their resultant analytically. (8)



Sout (A) to Top

vector  
 ↓  
 magn.    dir.

$$R = \sqrt{A^2 + B^2}$$

$$R = \sqrt{(12.8)^2 + (8.89)^2}$$

$$R = 15.6 \text{ m/s}$$

3SD

$$\tan \theta = \frac{8.89}{12.8}$$

$$\vec{R} = 15.6 \text{ m/s, } 34.8^\circ \text{ SW} \quad \left| \quad \theta = \frac{34.8^\circ}{3SD} \right.$$

original vectors	1 each
labels ( $\vec{A}, \vec{B}, \vec{C} \dots \vec{R}, \theta$ )	1
calculations	4
magnitude and direction of $\vec{R}$	1

# Physics 122

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1. Return -> Test - Unit 2
  2. Handout: Charge and Coulomb's Law  
Textbook: Page 638, #4-5
  3. Electric Fields - Continue
  4. Strength (Intensity) of an Electric Field
  5. Textbook: Page 646, #11-14 } HW  
Textbook: Page 655, #20-24 }
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6. Electric Potential Energy
7. Electric Potential Difference
8. Electric Current
9. Textbook: Page 696, #4-10
10. Circuit Symbols
11. Types of Current
12. Open and Closed Circuits
13. Ohm's Law
14. Series Circuits
15. Textbook: Page 719, #27-31
16. Parallel Circuits
17. Textbook: C15 - Page 724, #32-35

## Science 10

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



Monday, January 18/16

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1. Article: Keeping Threatened Amphibian Species Afloat  
4 Days Late
  2. Last Quiz - Tuesday, Jan. 19/16 (Biodiversity -> Paradigm Shift)
  3. Handout - Final Exam Topics -> Continue
  4. Return - Physics Test
  5. Practice Exam
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