Physics 112

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

Monday, April 1/19

1. Return/Submit: FAs
2. Return -> SA: U1- S3
3. Progress Reports
4. Questions?
   Worksheet - Page 137: Practice Problems (PP) #1-4
5. FA - Weight
6. Force of Friction
7. Handout - Coefficients of Friction
8. Free Body Diagrams - To Be Continued

Physics 122

Monday, April 1/19

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1. Return
   SA - U1: S3&4 (Relative Velocity and Collisions/Explosions)

2. Progress Reports

3. Questions?
   Worksheet: Charge and Coulomb's Law
   Textbook -> Page 638, #1-5

4. Coulomb's Law - Three Charges with Angles

5. Worksheet: Textbook: Page 640, #7 and 8

Textbook: Page 640, #6, 7 and 8

Coulomb's Law - Two or More Charges

6. 0.12 m (directly above the first proton)

7. $F_A = 1.2 \times 10^{-2}$ N[W73°S];
$F_B = 1.6 \times 10^{-2}$ N[E63°N];
$F_C = 4.6 \times 10^{-3}$ N[W36°S]

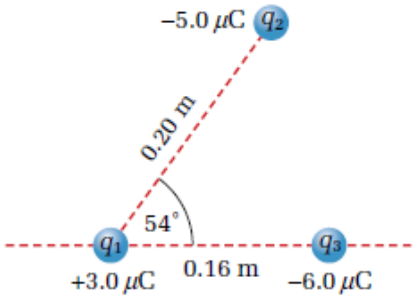
8. 8.7 N[E18°N]

PRACTICE PROBLEMS

6. A single isolated proton is fixed on a surface. Where must another proton be located in relation to the first in order that the electrostatic force of repulsion would just support its weight?

7. Three charged objects are located at the vertices of a right triangle. Charge A (+5.0 μC) has Cartesian coordinates (0,4); charge B (–5.0 μC) is at the origin; charge C (+4.0 μC) has coordinates (5,0), where the coordinates are in metres. What is the net force on each charge?

8. The diagram shows three charges situated in a plane. What is the net electrostatic force on q_1?



Science 122

Monday, April 1/19

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1. Progress Reports

2. Questions?
   Worksheet - Equation of Continuity and Bernoulli's Principle
   (Problems #50-55, #56-59)
   Worksheet: Problems - Continuity and Bernoulli's Equation
   Worksheet: Fluids - Continuity and Bernoulli: Extra Practice #2

3. SA - Hydrodynamics
   - Date: Thursday, April 4/19

4. Decay Series

5. Half-Life

6. Activity and Decay Constants

7. Examples #1-4

8. Worksheet - Half-Life, Activity and Decay Constant #1 and #2

Science 10

Monday, April 1/19

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1. Return -> SA - Chemistry #2 (Atoms, Ions and Compounds)
2. Progress Reports
3. Counting Atoms
4. Worksheet: Counting Atoms in Compounds

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5. Chemical Reactions
6. Word Equations
7. Chemical Equations
8. Law of Conservation of Mass
9. Examples - Balancing Chemical Equations
10. Worksheet - Balancing Chemical Equations