

Physics 112

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Monday, September 28/15

Open House - **Sept. 28** (6:00 pm - 7:30 pm)

Orange Shirt Day - **Sept. 30**

Treaty Day - **Oct. 1 or 2**

1. Return -> Experiment 2.1 - Measuring Length (Page 3)
 2. Return -> Explain That Stuff #2
 3. FA - Finding **R** Graphically
 4. Check -> Worksheet - Analytical Manipulation of Vectors
 5. Describing Motion - Frames of Reference - P3
-
6. Motion - Vocabulary
 7. Direction of Acceleration and Velocity
 8. Page 63 - Conceptual Problems
- Use Figures 2.19 and 2.20
 9. Types of Motion
 10. Assignment: Unit 1 - Section 1

FA - Finding \vec{R} Graphically
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Two acceleration vectors are 32.0 m/s^2 [W] and 24 m/s^2 [N]. Find the resultant of the vectors graphically.

Physics 122

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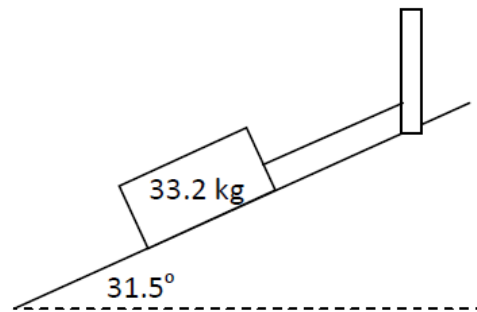
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1. FA - Force Type III Problem
 2. Return: Explain That Stuff #2 - Due Today
 3. Check - > Worksheet - Text: Chapter 5 -> Page 191, #25
Page 194, #27, 28
- Sample Problems
 4. Outline: Experiment 5.2 - Friction (Page 29)
 5. Check -> Worksheet - Type I, II and III Force Problems
-
6. Experiment 5.2 - Friction
 7. Assignment: Unit 1-Section 1



FA - Force Type III Problem


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The block in the diagram is AT REST. However, the tension in the cable is not the only thing holding the block back. Static friction is also applying a force. If the coefficient of static friction is 0.214 determine the tension in the rope.



$$\begin{aligned}
 +T + F_f - W_x &= 0 \\
 T + \mu N - W \sin 31.5 &= 0 \\
 T + \mu W_y - mg \sin 31.5 &= 0 \\
 T + \mu W \cos 31.5 - mg \sin 31.5 &= 0 \\
 T + \mu mg \cos 31.5 - mg \sin 31.5 &= 0 \\
 T &= mg \sin 31.5 - \mu mg \cos 31.5 \\
 T &= (33.2)(9.80) \sin 31.5 - (0.214)(33.2)(9.80) \cos 31.5 \\
 T &= 111 \text{ N}
 \end{aligned}$$

Science 10

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

Monday, September 28/15

1. Intervention -> Quiz: Matter, Periodic Table and Ions
 2. Check - > Worksheet #4 - Ionic Compounds Containing Multi-Valent Metals #1-8
 3. Chemical Formulas -> Names - Examples
- Worksheet #4 -> #9-16
 4. Worksheet #5 - Ionic Compounds Summary
 5. Quiz - All Ionic Compounds - Wednesday, Sept. 30/15
 6. Covalent Bonds
 7. Diatomic Molecules and Other Special Molecules
- To Be Continued
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8. Naming Binary Molecular Compounds