

Physics 112

Friday, January 11/19

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1. Exam Review:
Problem #5 - Second Law Problem (Type II)
 2. Exam Review:
Problem #6 - Second Law Problem (Type III)
- } Will do next week.
3. Questions?
Worksheet - C7 - Conservation of Mechanical Energy
Page 287: PP# 1-4, 6-7
Worksheet – Extra Practice - Conservation of Energy
 4. SA - U3S3 - Conservation of Energy
 - Friday, January 11/19 → Mond. . . Jan 14/19
 - Format - Problems
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Exam Review - Problem #5 - Second Law Problem (Type II)Thursday, Jan. 10/19

A 75 kg bobsled is pushed along a horizontal surface by two athletes. After the bobsled is pushed distance of 4.5 m starting from rest, its speed is 6.0 m/s. Find the magnitude of the net force on the bobsled.

 $3.0 \times 10^2 \text{ N}$

Exam Review - Problem #6 - Second Law Problem (Type III)Thursday, Jan. 10/19

In a physics lab, Amanda applies a 34.5 N rightward force to a cart to accelerate it across a horizontal surface at a rate of 1.28 m/s^2 . The coefficient of friction between the cart and surface is 0.648. Determine the mass of the cart.

4.52 kg

Physics 122

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1. Submit:

FA - Coulomb's Law - Three Charged Bodies in a Line

FA - Coulomb's Law - Three Charged Bodies at Angles

2. Questions?

Textbook: Page 646, #11-14

Textbook: Page 655, #20-24

} Electric Field Strength

3. FA - Electric Field Strength

4. Series Circuits - To Be Continued

5. [Series Circuits - Textbook: Page 719, #27-31](#)

6. Parallel Circuits

7. [Parallel Circuits - Textbook: Page 724, C15 - PP#32-35](#)

8. Combination/Complex Circuits

9. Combination/Complex Circuits - Textbook: Page 728, #36-37

Textbook: Page 749, #33-34

Science 10

Friday, January 11/19

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1. Science Articles - Complete 8 by the end of the semester.
 2. Practice Exam - Available
 3. Check:
Worksheet - 100 Hundred Acre Wood
 4. Velocity
 5. Calculating Velocity
 6. Resultant Displacement
 7. Average Velocity
 8. [Worksheet: Constant and Average Velocity Problems](#)
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9. Position vs Time Graphs
 10. Acceleration
 11. Calculating Acceleration
 12. Comparing Directions of Velocity and Acceleration
 13. Worksheet - Acceleration