# Physics 112

Monday, January 14/19

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- 1. SA U3S3 Conservation of Energy
- 2. Exam Review:

Problem #5 - Second Law Problem (Type II)

Problem #6 - Second Law Problem (Type III)

3. Worksheet - Exam Review Problems

### Exam Review - Problem #5 - Second Law Problem (Type II)

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.

### Exam Review - Problem #6 - Second Law Problem (Type III)

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<sup>2</sup>. The coefficient of friction between the cart and surface is 0.648. Determine the mass of the cart.

## 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

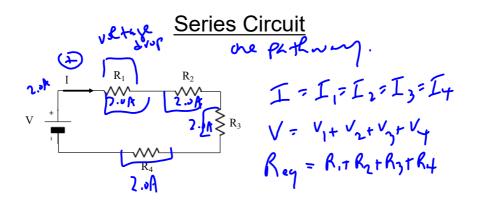
FA - Electric Field Strength

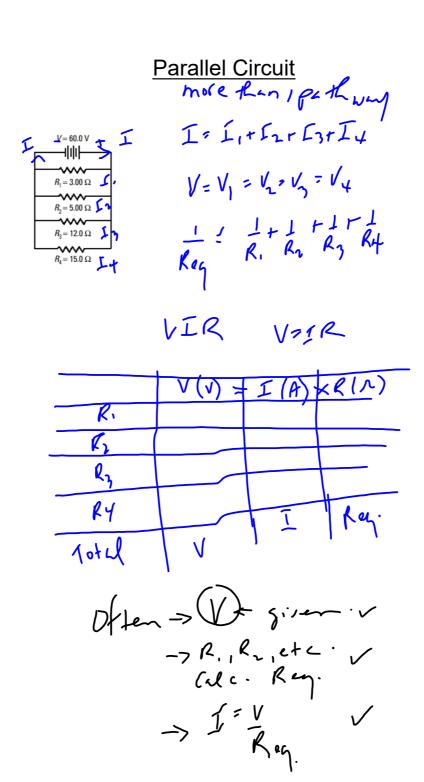
2. Series and Parallel Circuits - Quick Review

### 3. Questions?

Series Circuits - Textbook: Page 719, #27-31 Parallel Circuits - Textbook: Page 724, C15 - PP#32-35

- 4. Combination/Complex Circuits
- 5. Combination/Complex Circuits Textbook: Page 728, #36-37 Textbook: Page 749, #33-34
- 6. Review Electrostatics and Circuits





## Science 10 Monday, January 14/19

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### **Progress Reports**

- 1. Science Articles Complete 8 by the end of the semester.
- 2. Practice Exam Available
- 3. Exam Topics Handout
- 4. New Formula Sheet
- 5. Average Velocity Calculation Period 5
- 6. Questions?
  Worksheet: Constant and Average Velocity Problems
- 7. Position vs. Time Graphs
- 8. Worksheet Position vs Time Graphs
- 9. Acceleration
- 10. Comparing Directions of Velocity and Acceleration
- 11. Acceleration Calculations Tomorrow for P5
- 12. Worksheet Acceleration