

## Physics 112

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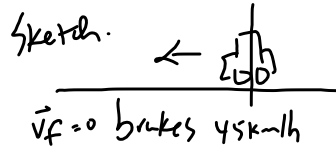
Monday, April 15/19

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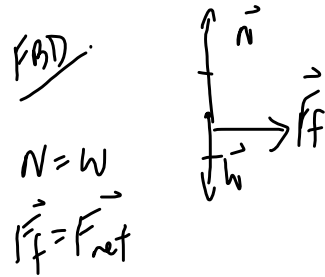
## Use of Vector Notation

1. Submit/Return -> FAs: Second Law Problems
  2. Questions?
    - Worksheet -> C5 – Newton’s Second Law
    - Worksheet -> Text: Page 163, PP #1-3
    - Text - Page 168, PP #4-8
    - Worksheet -> Extra Force Problems
  3. Check -> Third Law of Motion
  4. SA - U2: S1&2
    - Date: Thursday (April 18)
    - Format:
      - > MC (10-15)
      - > Problems (5)
        - Weight
        - 1st Law Problem
        - 2nd Law Problem (Type II)
        - 2nd Law Problem (Type III)
        - 2nd Law Problem (Type II and III Combined)
- 
5. U2 - Section 3: Introduction to Momentum - Concept Sheet
  6. Momentum
  7. Impulse
  8. Worksheet: C5 - Momentum, Page 197: PP #29  
C5 - Impulse Page 200: PP #30-32
  9. Impulse-Momentum Theorem
  10. Worksheet: C5 - (I-M Thm) Textbook: Page 203, PP #33-35  
Textbook: Page 209, #37-45

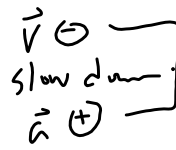
\* (5. P 168 # 6. (Type II + Type III)



$m = 1.2 \times 10^3 \text{ Kg}$   
 $* \vec{v}_i = \ominus 45 \frac{\text{km}}{\text{h}}$   
 $\div 3.6 \downarrow$   
 $-12.5 \text{ m/s}$   
 $\vec{v}_f = 0 \text{ m/s}$   
 $d = \ominus 35 \text{ m}$   
 $M = ? \leftarrow$



$\vec{F}_{\text{net}} = m\vec{a}$   
 $+ F_f = m(+a)$



$mN = mg$   
 $mW = ma$   
 $mng = ma$

$\vec{v}_f = \vec{v}_i + 2\vec{a}d$   
 $0 = v_i^2 + 2\vec{a}d$   
 $-v_i^2 = \frac{2\vec{a}d}{2d}$   
 $\vec{a} = -\frac{v_i^2}{2d}$

$mg = a$   
 $M = \frac{a}{g}$

$\vec{a} = \frac{-(-12.5)^2}{2(-35)}$

$M = \frac{2.23}{9.80}$

$\vec{a} = + 2.23 \text{ m/s}^2$

$M = 0.23$

How to recognize a problem like P 168 # 6.

- \* slowing down
- \* only  $F_f$  as a horiz. force.
- \* Kinematic info is provided.

## Physics 122

Monday, April 15/19

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1. Questions?  
SA - Electrostatics
  2. Questions?  
Series Circuits -> [Worksheet: Practice Problems](#)  
Parallel Circuits -> [Worksheet: Practice Problems](#)
  3. Combination/Complex Circuits - Examples  
- [Worksheet - Practice Problems](#)
- 
4. Circuit #1 and #2

## Science 122

Monday, April 15/19

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1. Questions?  
Worksheet - Energy of Photons, Work Function, de Broglie Wavelength, Etc.
  2. Niels Bohr and Atomic Structure
  3. Energy Level Diagrams
  4. [Worksheet - Nuclear: Energy Levels](#)
- 
5. Next Topic: Electrochemistry

## Science 10

Monday, April 15/19

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1. Questions?

Worksheet: Combustion Reactions

Worksheet: Identifying Reaction Types

2. Translating Sentences or Word Equations into Balanced Chemical Equations

3. Worksheet: Translations

4. Review SA - Chemistry #3

5. SA - Chemistry #3

- Date: To Be Decided