

Science 10

Tuesday, April 4/17

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1. Chemistry Test -> Some Still to Write
 2. Physical Quantities
 3. SI System of Units
 4. Scientific Notation
 5. Certainty and Significant Digits
 6. Our Rule for Counting Significant Digits
 7. Counted Values and Defined Values
 8. Rounding Values
 9. [Worksheet - Significant Digits and Rounding - HW](#)
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10. Certainty Rule for Multiplying and Dividing Measurements
 11. Precision Rule for Adding and Subtracting Measurements

Physics 112

Tuesday, April 4/17

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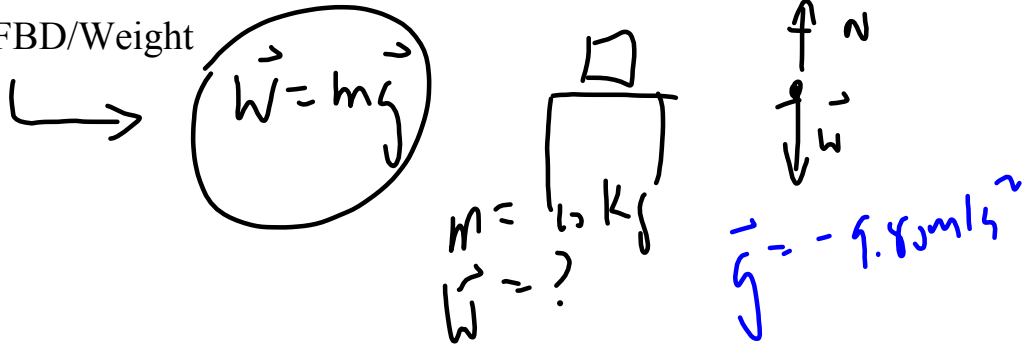
Midterm - Friday, April 7/17

1. Return -> SA - U2 S1: Types of Forces and FBDs
2. Check:
[Worksheets -> C4 - P151: PFU #26-28, 30-32, 34 - HW Again](#)
-> C4 - Introducing Forces - Extra Practice

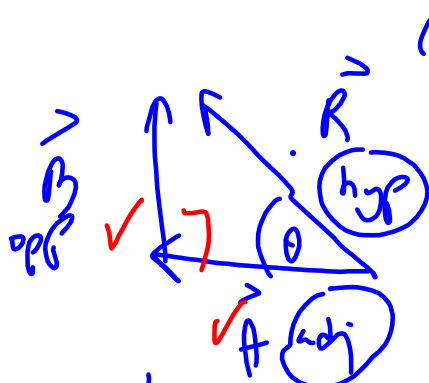
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3. Newton's 2nd Law: Law of F, m and a
 4. Second Law Problems
 5. Worksheet - Second Law Problems

Physics 112 Midterm Topics

- 1 - determine \vec{R} mathematically (follow rubric) (10)
- 1 - velocity-time graph - like formative + summative
- 3 - kinematic problems (one freely falling body)
- 1 - FBD/Weight



Calculate R if $A = 52.3 \text{ m/s}^2$, $B = 41.9 \text{ m/s}^2$



Calc. #2 dir.

$$\tan \theta = \frac{B}{A}$$

$$\tan \theta = \frac{41.9}{52.3}$$

$$\theta = 38.7^\circ$$

Calc. #1 \rightarrow magnitude

$$R^2 = A^2 + B^2$$

$$R = \sqrt{A^2 + B^2}$$

$$R = \sqrt{(52.3)^2 + (41.9)^2}$$

$$R = 67.0 \text{ m/s}^2 \text{ (3 sig figs)}$$

$$\vec{R} = 67.0 \text{ m/s}^2, 38.7^\circ \text{ N of W}$$

Physics 122

Tuesday, April 4/17

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Midterm - Friday, April 7/17

1. Return -> FA - 1D Collisions
 2. SA - U1S3&3 -> Wednesday
 3. 2D Collisions/Explosions - Continue
 4. Worksheets - 2D Collisions and Explosions
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1. Push/Pull
 2. Susp. obj
 3. Incline → + Kinematic Part
 4. Static Torque
 5. Rel. Vel. — Boat/Plane
 6. 1D Collision
(+Type)
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