

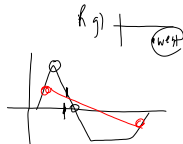
1. Midterm -> Tuesday, Nov. 21/17
 - > Format: Problems Only
 - > calculate R (follow rubric)
 - > velocity-time graph
 - > freely falling body problem
 - > Newton's First Law problem
 - > Newton's Second Law problem
 - > Newton's Second Law problem
2. Questions about Midterm Problems?
3. U2 - S3: Introduction to Momentum
4. Momentum
5. Impulse - To Be Continued
6. Worksheet - Momentum (PP #29) and Impulse (PP #30-32)
7. Impulse-Momentum Theorem
8. Worksheet - CS - Impulse-Momentum Page 203: PP #33-35
9. Worksheet - CS - Momentum and Impulse-Momentum Page 209: PFU #37-45

Q. v. Prob. for Midterm.

#17

$A_1 = 30m$
 $A_2 = 45m$
 $d = A_1 + A_2$
 $d = 30m + 45m = 75m$
 $d) \vec{v}_{ave} = \frac{d \cdot \rho}{t}$
 $\vec{v}_{ave} = \frac{A_1 - A_2}{2t}$
 $\vec{v}_{ave} = \frac{30m - 45m}{2 \cdot 2s}$
 $\vec{v}_{ave} = -0.71m/s$

$R a) t = 12s$
 $C) \text{ ave ecc } > \text{ slope}$
 $(13.4)(17.0)$
 $+ 0.43m/s^2$
 $0.43m/s^2 \vec{E}$



#18

$a) m = 22.99kg$
 $\vec{W} = -22.99N$
 $\vec{W} = m\vec{g}$
 $\vec{g} = \frac{\vec{W}}{m}$
 $\vec{g} = \frac{-22.99N}{22.99kg}$
 $\vec{g} = -1.0m/s^2$

$\vec{W} \rightarrow 19.37N$
 $\vec{W} \rightarrow 19.37N$
 $\vec{W} \rightarrow 19.37N$

$\vec{W} = 2.2 \times 10^4 N$
 $\vec{F} = 2.2 \times 10^4 N$
 $\vec{F} = \vec{W}$

#18

$\vec{F}_N = m\vec{a}$
 $\vec{F}_f = m\vec{a}$
 $\vec{F}_f - m\vec{W} = m\vec{a}$
 $\vec{F}_f = m\vec{a} + m\vec{W}$
 $\vec{F}_f = m(\vec{a} + \vec{g})$
 $\vec{F}_f = m$
 $\vec{F}_f = m(\vec{a} + \vec{g})$
 $\vec{F}_f = m(\vec{a} + \vec{g})$

$V = 2\pi r f = 2\pi r f$
 $m_c = \frac{v^2}{r}$
 $f_c = m_c a$

Physics 122

Thursday, November 16/17

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1. SA - U2 S1&2: MC and Problems
 2. Midterm - Nov. 21
 - > push/pull OR incline plane
 - > static torque
 - > relative velocity (boat or plane)
 - > 2D collision/explosion
 - > uniform circular motion + banked/unbanked curve
 - > universal gravitation, g, v and T
 3. Worksheet - Text: C13 Page 614, PP #5-8 (Pendulums) - HW
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4. Review - Hooke's Law
 5. Mass on a Spring - Period
 6. Review - Types of Energy
 7. Energy of a Mass on a Horizontal Spring

Science 10

Thursday, November 16/17

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1. Certainty and Significant Digits
2. Rule for Counting SDs
3. Exact and Defined Values
4. Rounding Values
5. Worksheet - Counting Significant Digits and Rounding
- Completed and Checked in Class

6. Certainty Rule for Multiplying and Dividing Measurements
7. Precision Rule for Adding and Subtracting Measurements
8. Worksheet - Certainty and Precision Rules