## Physics 112

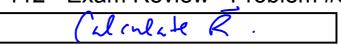
Wednesday, January 10/18

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### **Progress Reports**

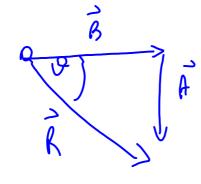
- 1. Exam Review Problem #3
- 2. Questions? Worksheet Waves: Frequency, Period and Wave Speed
- 3. Summary Measures of A Wave
- 4. Concepts U4: S2 Wave Behaviors
- 5. Reflection
- 6. Diffraction
- 7. Refraction

#### P112 - Exam Review - Problem #3



 $\overrightarrow{A}$  = 28.9 m/s<sup>2</sup>, S and  $\overrightarrow{B}$  = 37.1 m/s<sup>2</sup>, E. Calculate  $\overrightarrow{R}$ .

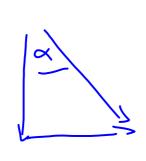
$$\vec{A} = \frac{28.9 \text{ m/s}^{2}}{5} = \frac{28.9 \text{ m/s}^{2}}{5} = \frac{37.1 \text{ m/s}^{2}}{5}$$



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

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

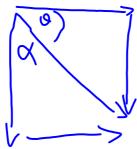
$$R = \sqrt{R^{2} + B^{2}}$$



$$\frac{1}{4} + 6 = \frac{4}{8}$$

$$\frac{1}{3} + \frac{2}{3} + \frac{9}{3}$$

$$\frac{1}{3} + \frac{9}{3} = \frac{3}{3} + \frac{9}{3}$$



# **Summary Measures of a Wave**

Ex A~

Quantity	Symbol	Unit
amplitude	(-)	cm.m.Km
Wavelength	Y	(m. m) Km
Flegheney	£	5-1, 1/2
Reliad	$\overline{}$	S
Wave speed.	V	M15

$$f = \# T = \frac{1}{t} \quad \forall = \begin{bmatrix} 1 \\ t \end{bmatrix}, \quad \forall = \begin{bmatrix} 1 \\ t \end{bmatrix}, \quad \forall = \begin{bmatrix} 1 \\ t \end{bmatrix}$$

$$\frac{1}{t} = \begin{bmatrix} 1 \\ t \end{bmatrix}, \quad \forall = \begin{bmatrix} 1 \\ t \end{bmatrix}$$

$$\frac{1}{t} = \begin{bmatrix} 1 \\ t \end{bmatrix}$$

#### Physics 122 Wednesday, January 10/18

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#### Mrs. Stewart's Roller Coasters

- 1. Exam Topics and Format
- 2. Worksheet Textbook: C15, Page 708, #16-20 Worksheet - Textbook: C15, Page 714, #21-25 Worksheet - Textbook: Page 737, #40-42 Page 744, #46-50

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

- 3. Combination/Complex Circuits
- 4. Complex -> Textbook: Page 728, C15 PP#36-37
- 5. SA U3 S2 Electric Circuits -> Friday, January 12/18 MC: 10 max Problems: electric current (I = q/t) resistance in a wire ( $R = \rho \underline{L}$ )

  A power (P = IV) complex circuit

#### Science 10 Wednesday, January 10/18

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- 1. Roller Coasters Due: Wednesday, Jan. 17/18
- 2. Exam Topics
- 3. Practice Exam
- 4. Return -> FA Constant Velocity/Average Velocity
- 5. Check -> Example: Position vs Time
- 6. Worksheets: Position vs. Time Graphs HW
- 7. Velocity vs Time Graphs
- 8. Worksheet Velocity vs Time Graphs
- 9. Acceleration
- 10. Comparing Directions of Velocity and Acceleration
- 11. Sample Problems -Acceleration
- 12. Worksheet Acceleration Problems

# **FA - Constant Velocity/Average Velocity**

How long would it take a car to travel 200.0 km [W] if it is traveling at a constant velocity of 55.0 km/h [W]?

It takes 3.64 h.