**PHYSICS 2021 - 22 August 27, 2021**

**Today’s Agenda (Day 8)**

1. HOUSEKEEPING ITEMS
2. HOMEWORK CHECK:

🡪 APA Review

🡪 Practice Problems **#1a – f, #2a – d, #3a – d; #4a – d, #5a – d, #6 – 10; #11 - 13, #14 – 19**

🡪 Math Practice: Isolating Variables, Scientific Notation

🡪 Chapter 1 Vocabulary

1. CLASS ACTIVITY

🡪 ACTIVITY: Pringles Ring – see p. 2 of document

🡪 MONDAY: Math Review – Day 5

1. **Graphs of Relations**
2. Geometry and Trigonometry

\*\***Show work** when solving these questions. Take a picture of your written workings, pay attention to the steps in the solution process. SUBMIT by class end to [sbeland@luschool.com](mailto:sbeland@luschool.com), subject line: Math Review Day #5

HOMEWORK:

* READ: Chapter 1 – A Physics Toolkit
* COMPLETE: Chapter 1 Notes

Chapter 1 Vocabulary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Physics | Scientific methods | Hypothesis | Model | Scientific theory |
| Scientific law | Dimensional analysis | Significant figures | Measurement | Precision |
| Accuracy | Independent variable | Dependent variable | Line of best fit | Linear relationship |
| Quadratic relationship | Inverse relationship |  |  |  |

Chapter 2 Vocabulary

|  |  |  |  |
| --- | --- | --- | --- |
| Particle model | Distance | Time interval | Instantaneous position |
| Coordinate system | Magnitude | Displacement | Average velocity |
| Origin | Vector | Resultant | Average speed |
| Position | Scalar | Position-time graph | Instantaneous velocity |

REMINDERS:

* ~~Chapter 1 Vocabulary~~ – Aug. 27
* Chapter 1 Notes – Aug. 30
* TEST: Chapter 1 (includes math review) 🡪 **Tuesday, September 7**
* QUIZ: Ch 1 & 2 Vocabulary **🡪 Thursday, September 9**

**PHYSICS 2021 - 22 GROUP ACTIVITY**

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**PHYSICS 2021 - 22 MATH REVIEW**

# TRIGONOMETRY

Answer the following questions using Pythagorean theorem, trigonometric functions and inverse trigonometric functions. For full credit, be sure to show your setup and work for each problem.

Shape

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Shape

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2. Find the marked side of each triangle:

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3. Find the value for the marked angle

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4. Write an expression for the variable with the question mark in terms of the other variables given.

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