**PHYSICS 2021 - 22 August 30, 2021**

**Today’s Agenda (Day 9)**

1. HOUSEKEEPING ITEMS
2. HOMEWORK CHECK:

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1. CLASS ACTIVITY

🡪 DISCUSS Pringles Ring Activity

🡪 MONDAY: Math Review – Day 6

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, subject line: Math Review Day #6

HOMEWORK:

* READ: Chapter 1 – A Physics Toolkit
* STUDY: Chapter 1 and Math Review

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

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

**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.

1. Fill in the missing side of each triangle:

a) b) c) d)

2. Find the marked side of each triangle:

a) b) c) d)

3. Find the value for the marked angle

a) b) c) d)



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

a) b) c) d)