## Geometry Math Lesson: Wednesday, April 8th

## Learning Target:

Students will be able to find the missing sides of a right triangle when given the angle of elevation or depression.

Let's Get Started:

First, review the video notes from vesterday if needed.



# <u>Click the link to watch today's video</u>.

Review the day's notes: <u>Angle of Elevation and Depression Notes 2</u>

# **KHAN ACADEMY Links**

Click the link to watch the <u>Alien Problem video</u>.

Click the link for <u>guided practice</u>. You will get feedback on your answers!



On a sheet of paper, answer the questions.

1) A boat is 1000 meters from a cliff. If the angle located at the boat is 15°, how tall is the cliff? Round your answer to the nearest tenth.

3) A 45-ft ladder makes an angle of measure 55° with the ground. How high up the wall does the ladder reach?

2) The surface of a ramp is 475 m long. It rises a vertical distance of 28 m. Find the measure of the angle of elevation. 4) An airplane is flying at a height of 2 miles above the ground. The distance along the ground from the airplane to the airport is 5 miles. What is the angle of depression from the airplane to the airport?

#### **Answer Key:**

Once you have completed the problems, check your answers here.

- 1. 268M
- 2. 3.37 degrees
- 3. 36.86 ft
- 4. 21.8 degrees



For additional practice, complete the <u>Right</u> <u>triangle trigonometry word problems Khan</u> <u>Academy practice</u>. You will get feedback on your answers!