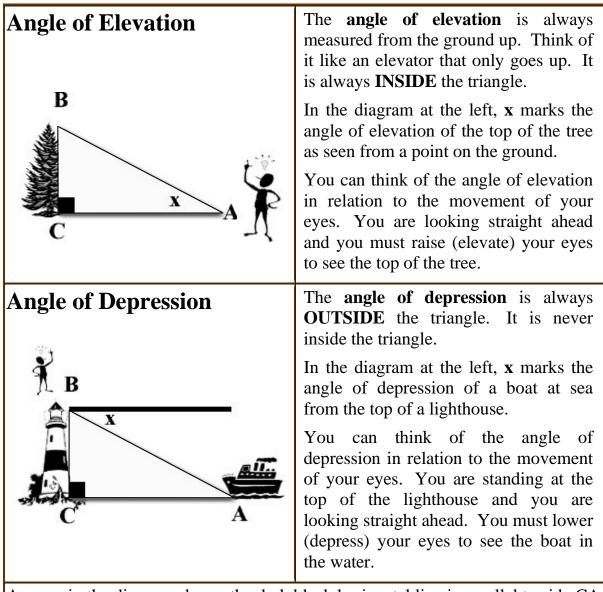
Name:	
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Angle of Elevation vs. Angle of Depression

Trigonometry is used on a daily basis in the workplace. Since trigonometry means "triangle measure", any profession that deals with measurement deals with trigonometry as well. Carpenters, construction workers and engineers, for example, must possess a thorough understanding of trigonometry.

Word problems introduce two new vocabulary terms:



As seen in the diagram above, the dark black horizontal line is parallel to side CA of triangle ABC. This forms two alternate interior angles which are equal in measure. This tells us that:

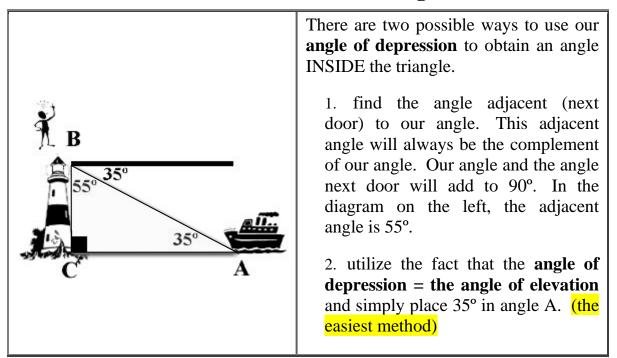
the angle of elevation = the angle of depression.

Name:	
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"Angle of Elevation" is the angle formed between the horizontal and the line of sight when looking upward.

"Angle of Depression" is the angle formed between the horizontal and the line of sight when looking downward.

So what do we do with this angle of depression that is "OUTSIDE" of our triangle?



Once you have created your diagram, the word problems are solved in exactly the same manner as the problems we discussed earlier.

Steps for Solving Word Problems:

- Step 1- Read the question carefully. Watch out for special terms like angle of elevation, etc.
- Step 2- Draw the diagram of the right triangle described by the question.
- Step 3- Label the diagram with all the information given by the question, such as angles and side lengths.
- Step 4- Identify the angle in consideration and label its special sides.
- Step 5- Identify the trigonometric ratio to be used to solve the triangle.
- **Step 6- Solve for the unknowns.**