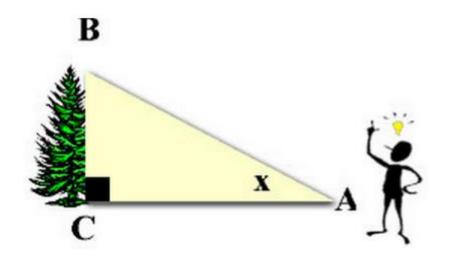


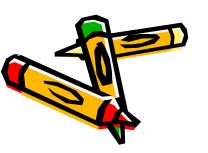
# Geometry

Angles of Elevation and Depression

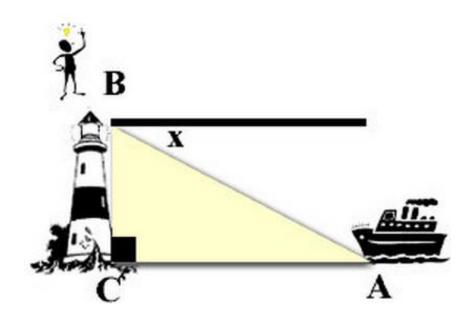


The **angle of elevation** is always measured from the ground up. Think of it like an elevator that only goes up. It is always **INSIDE** the triangle.





The angle of depression is always OUTSIDE the triangle. It is never inside the triangle. The angle of depression is measured down from the horizon line.

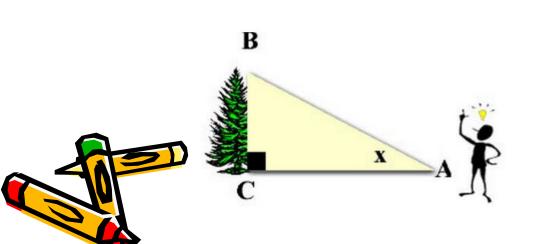


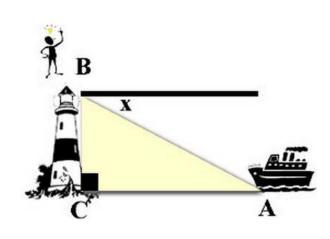


The angle of elevation and the angle of depression, are a matter of perspective.

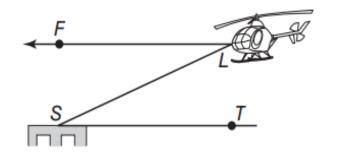
#### Things to notice:

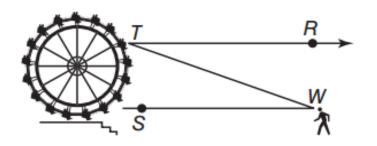
- 1. The horizon line is parallel to the ground
- 2. The angle of depression is Alternate Interior the angle of elevation.





Name the angles of elevation and depression in each figure.





Angle of elevation: \_\_\_\_\_

Angle of depression:

Angle of elevation:

Angle of depression:



**1. HILL TOP** The angle of elevation from point *A* to the top of a hill is 49°. If point *A* is 400 feet from the base of the hill, how high is the hill?

