

Unit 1.7 and 1.8 Notes Right Triangles

Angles of Elevation and Depression

The "Angle of Elevation" is talking about looking from the horizon "up" to an object.

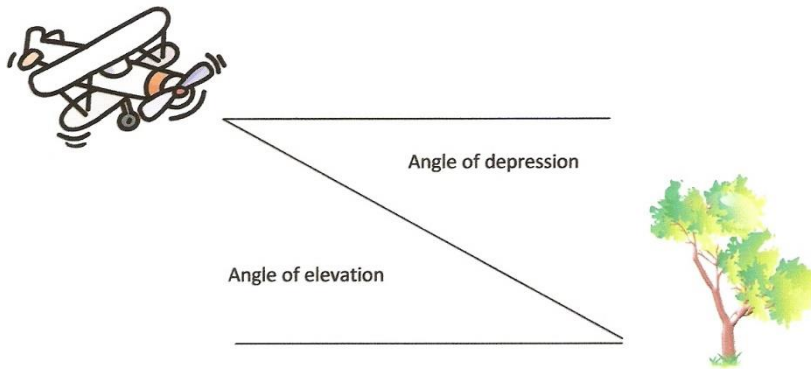
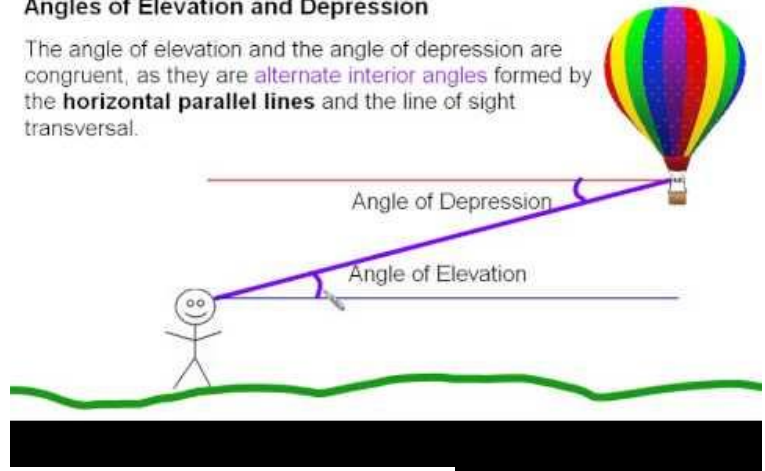
whereas,

The "Angle of Depression" is talking about looking from the horizon "down" to an object.



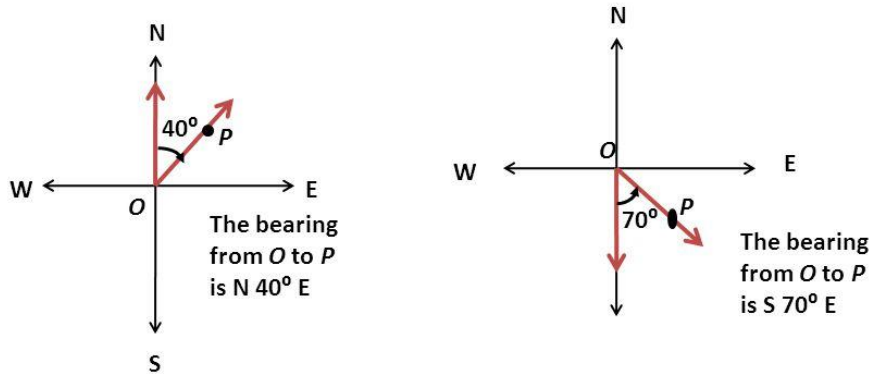
Angles of Elevation and Depression

The angle of elevation and the angle of depression are congruent, as they are **alternate interior angles** formed by the **horizontal parallel lines** and the line of sight transversal.



BEARING: A term used to specify the location of one point relative to another.

The bearing from point O to point P is the acute angle (in degrees) between ray OP and a north-south line.



The arrow is pointing at a bearing of either:

$N103^\circ E$ or $S77^\circ E$

Using degree between 0 and 90 is better so,

$S77^\circ E$ is the more commonly used bearing.

The first letter is always N or S, (for North or South)

The second letter lets you know which way to turn towards.

The degrees in the middle lets you know how far to turn in that direction.

