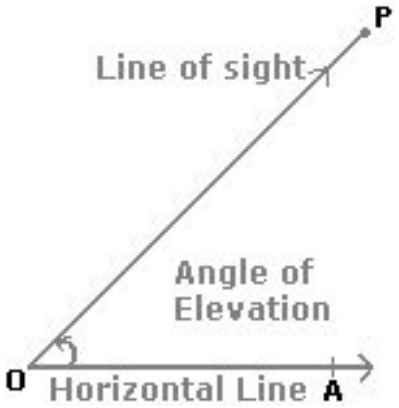
Heights & Distance

BASICS :

Sin x = opposite side / Hypotenuse
Cos x = adjacent side / Hypotenuse
Tan x = oppsite side / adjacent side
Cot x = 1 / tan x
Sec x = 1/ cos x
Cosec x = 1 / sin x

$\sin^2 \theta + \cos^2 \theta = 1$
$1 + \tan^2 \theta = \sec^2 \theta$
$1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$

The angle of Elevation :



The angle of depression :