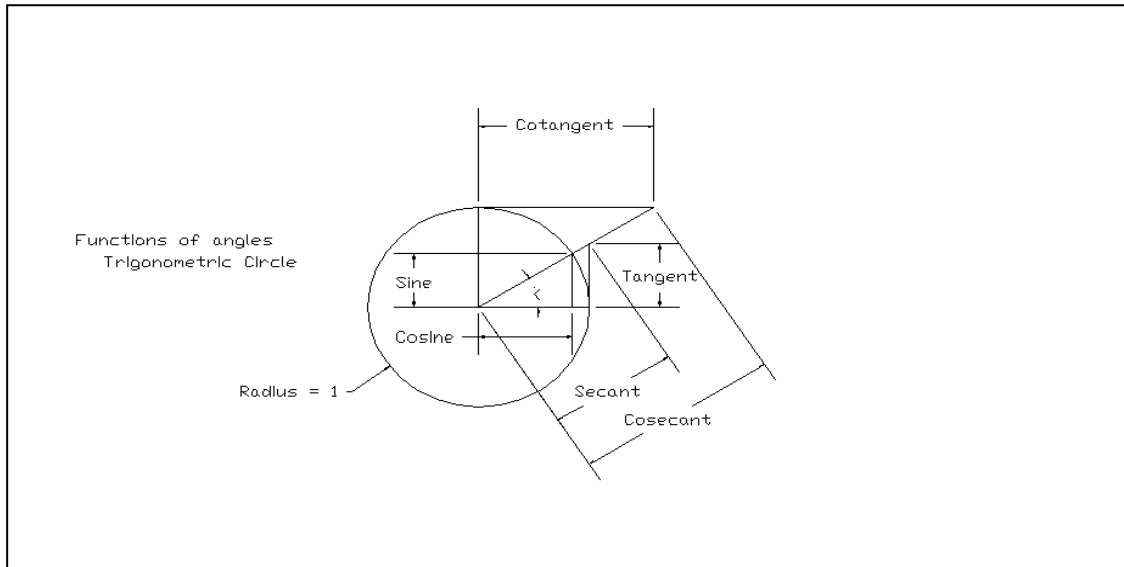


## Trigonometry Functions



### Functions of angles

side opposite / hypotenuse = sine

side adjacent / side opposite = cotangent

side adjacent / hypotenuse = cosine

hypotenuse / side adjacent = secant

side opposite / side adjacent = tangent

hypotenuse / side opposite = cosecant

### Finding the length of sides in right angle triangles when an angle and side are known

Length of side opposite =  
 hypotenuse x sine  
 hypotenuse / cosecant  
 side adjacent x tangent  
 side adjacent / cotangent

Length of side adjacent =  
 hypotenuse x cosine  
 hypotenuse / secant  
 side opposite x cotangent  
 side opposite / tangent

Length of hypotenuse =  
 side opposite x cosecant  
 side opposite / sine  
 side adjacent x secant  
 side adjacent / cosine

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