

Trigonometry Ratios (T-ratios) of an acute angle of a Right Angled Triangle

Let $\angle QPR = \theta$, be an acute angle of a right angled ΔPQR .

Side opposite to 90° is known as hypotenuse, side opposite to angle for which we have. To find out the value of T-ratio is known as perpendicular and the third side is base.

Now, $PQ \Rightarrow$ base = x

$RQ \Rightarrow$ perpendicular = y

$PR \Rightarrow$ hypotenuse = z

We define the following six trigonometric ratios

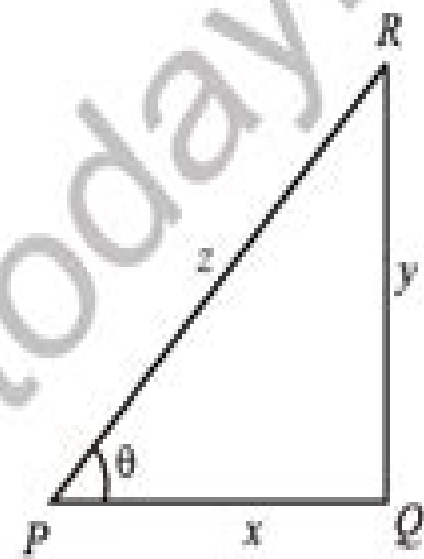
1. $\sin \theta = \frac{\text{Perpendicular}}{\text{hypotenuse}} = \frac{y}{z}$

2. $\cosine \theta = \frac{\text{Base}}{\text{hypotenuse}} = \frac{x}{z}$ (cosine θ is written as $\cos \theta$)

3. $\text{tangent } \theta = \frac{\text{Perpendicular}}{\text{Base}} = \frac{y}{x}$

4. $\text{cosecant } \theta = \frac{\text{Hypotenuse}}{\text{Perpendicular}} = \frac{z}{y}$ (cosecant θ is written as $\text{cosec } \theta$)

5. $\text{secant } \theta = \frac{\text{Hypotenuse}}{\text{base}} = \frac{z}{x}$ (secant θ is written as $\text{sec } \theta$)



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