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 nown 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,
$$PQ \Rightarrow \text{base} = x$$

 $RQ \Rightarrow \text{perpendicular} = y$
 $PR \Rightarrow \text{hypotenuse} = z$

We define the following six trigonometric ratios

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

2.
$$\operatorname{cosine} \theta = \frac{\operatorname{Base}}{\operatorname{hypotenuse}} = \frac{x}{z}$$

(cosine θ is written as $\cos \theta$)

X

3.
$$tangent \theta = \frac{Perpendicular}{Base} = \frac{1}{2}$$

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

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

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