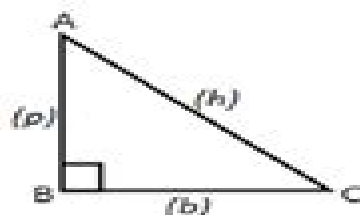


TRIGONOMETRY



$$\triangleright \sin \theta = \frac{p}{h}; \operatorname{cosec} \theta = \frac{h}{p}$$

$$\triangleright \cos \theta = \frac{b}{h}; \sec \theta = \frac{h}{b}$$

$$\triangleright \tan \theta = \frac{p}{b}; \cot \theta = \frac{b}{p}$$

- $-1 \leq \sin \theta$ or $\cos \theta \leq +1$
- $-\infty \leq \tan \theta$ or $\cot \theta \leq +\infty$
- $+1 \leq \sec \theta$ or $\operatorname{cosec} \theta \leq -1$

$$a) \sin \theta \operatorname{cosec} \theta = 1$$

$$b) \cos \theta \sec \theta = 1$$

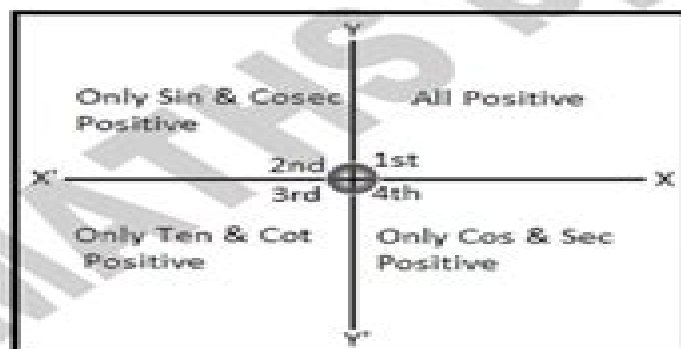
$$c) \tan \theta \cot \theta = 1$$

$$\checkmark \tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{1}{\cot \theta}$$

$$\checkmark \cot \theta = \frac{\cos \theta}{\sin \theta} = \frac{1}{\tan \theta}$$

$$\checkmark \sec \theta = \frac{1}{\cos \theta}$$

$$\checkmark \operatorname{cosec} \theta = \frac{1}{\sin \theta}$$



- 1st = 0° to 90° ; 2nd = $(90^\circ +)$ to 180°
- 3rd = $(180^\circ +)$ to 270° ; 4th = $(270^\circ +)$ to 360°

Changes between Angles:-

$$\triangleright \sin \theta \leftrightarrow \cos \theta // \tan \theta \leftrightarrow \cot \theta // \sec \theta \leftrightarrow \operatorname{cosec} \theta$$

- $\sin(90^\circ - \theta) = \cos \theta$
- $\cos(90^\circ - \theta) = \sin \theta$
- $\tan(90^\circ - \theta) = \cot \theta$
- $\cot(90^\circ - \theta) = \tan \theta$
- $\sec(90^\circ - \theta) = \operatorname{cosec} \theta$
- $\operatorname{cosec}(90^\circ - \theta) = \sec \theta$
- $\sin(90^\circ + \theta) = \cos \theta$
- $\cos(90^\circ + \theta) = -\sin \theta$
- $\tan(90^\circ + \theta) = -\cot \theta$
- $\cot(90^\circ + \theta) = -\tan \theta$
- $\sec(90^\circ + \theta) = -\operatorname{cosec} \theta$
- $\operatorname{cosec}(90^\circ + \theta) = \sec \theta$
- $\sin(180^\circ - \theta) = \sin \theta$
- $\cos(180^\circ - \theta) = -\cos \theta$
- $\tan(180^\circ - \theta) = -\tan \theta$
- $\cot(180^\circ - \theta) = -\cot \theta$
- $\sec(180^\circ - \theta) = -\sec \theta$
- $\operatorname{cosec}(180^\circ - \theta) = \operatorname{cosec} \theta$
- $\sin(180^\circ + \theta) = -\sin \theta$
- $\cos(180^\circ + \theta) = -\cos \theta$
- $\tan(180^\circ + \theta) = \tan \theta$
- $\cot(180^\circ + \theta) = \cot \theta$
- $\sec(180^\circ + \theta) = -\sec \theta$
- $\operatorname{cosec}(180^\circ + \theta) = -\operatorname{cosec} \theta$
- $\sin(270^\circ - \theta) = -\cos \theta$
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- $\sec(270^\circ + \theta) = \operatorname{cosec} \theta$
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- $\cot(360^\circ + \theta) = \cot \theta$
- $\sec(360^\circ + \theta) = \sec \theta$
- $\operatorname{cosec}(360^\circ + \theta) = \operatorname{cosec} \theta$

Fundamentals Of Trigonometry

**Charles David Miller, Margaret L.
Lial, David I. Schneider**



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