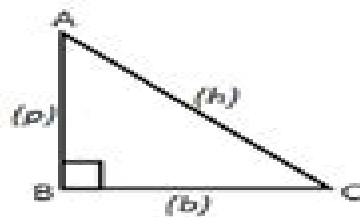


# TRIGONOMETRY



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

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

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

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

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

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

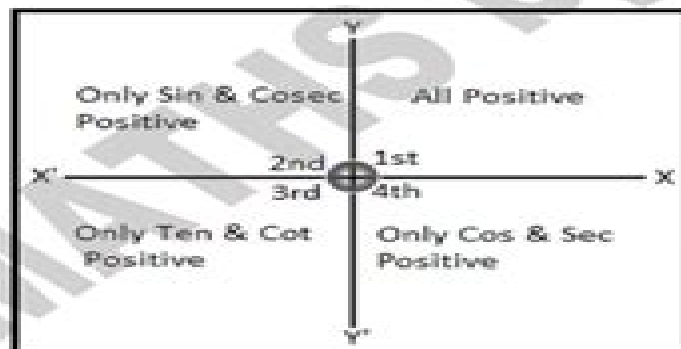
$$c) \tan\theta \cot\theta = 1$$

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

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

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

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



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

## Changes between Angles:-

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

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

# Trigonometry Formula Sheet

**Jonathan Tullis**



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Sarell,John Baley,2002-06-26 This text is designed for an in depth course in trigonometry Although the development of trigonometry begins on page one the authors realize that many students may have completed algebra and geometry courses some time ago Therefore they have included algebra and geometry reminders throughout the text where they know from their teaching experience that many students need help in recalling ideas that are necessary to develop trigonometry While it assumes no previous knowledge of trigonometry this book shows how trigonometry can be used in many fields It also develops algebra skills so that students will be thoroughly prepared to continue their study of mathematics and science The

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