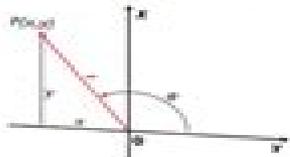


# TRIGONOMETRY

## TRIGONOMETRIC FUNCTIONS

### GENERAL ANGLES

- If  $\theta$  is any angle in standard position (i.e., vertex at origin of Cartesian coordinate system, initial side coincides with positive x-axis)
- $P(x, y)$  is any point on the terminal side of the angle



$$\begin{aligned} \sin \theta &= y/r & \csc \theta &= r/y \\ \cos \theta &= x/r & \sec \theta &= r/x \\ \tan \theta &= y/x & \cot \theta &= x/y \\ \sec \theta &= r/x & \csc \theta &= r/y \end{aligned}$$

### Memory Aid

- Sine = Opposite / Hypotenuse
  - Cosine = Adjacent / Hypotenuse
  - Tangent = Opposite / Adjacent
- S • O • H • C • A • H • T • O • A

### ACUTE ANGLES

- A and B are acute angles ( $< 90^\circ$ )
- C is a right angle ( $= 90^\circ$ )
- $A + B + C = 180^\circ$  (properties also hold for angles A and B)



$$\begin{aligned} \sin A &= a/c & \cos A &= b/c \\ \tan A &= a/b & \cot A &= b/a \\ \sec A &= c/b & \csc A &= c/a \end{aligned}$$

### OBTUSE ANGLES

- A and B are acute angles ( $< 90^\circ$ )
- C is an obtuse (obtuse) angle ( $> 90^\circ$ )
- $A + B + C = 180^\circ$



Note: For equations relating to obtuse angles, see Oblique Triangles (page 3).

### ALGEBRAIC SIGN OF FUNCTIONS

Quadrant	sin	cos	tan	cot	sec	csc
I	(+,)	(+,)	(+,)	(+,)	(+,)	(+,)
II	(+,)	(-,)	(-,)	(+,)	(-,)	(-,)
III	(-,)	(-,)	(+,)	(-,)	(-,)	(+,)
IV	(-,)	(+,)	(+,)	(-,)	(+,)	(-,)



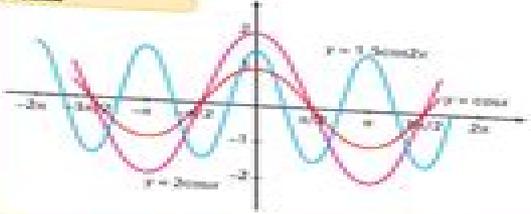
• Quadrant location of  $\theta$  determines sign and range of function

## FORMULAS & GRAPHS

### SINE



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## PERIOD, AMPLITUDE, & PHASE SHIFT

### PERIOD

- Function  $f(x)$  is periodic if there is a positive real number  $k$  such that, for  $x$  and  $x + k$  in domain of  $f$ ,  $f(x + k) = f(x)$
- Fundamental period of  $f$  is smallest number  $p$  such that, for  $x \in A$ ,  $f(x + p) = f(x)$
- Sine function has period of  $2\pi$ ,  $f(x) = \sin(x + p) \iff p = 2\pi$
- So,  $f(x) = \sin(x + a)$  is periodic with period  $2\pi/|a|$

### AMPLITUDE

- When a periodic function has maximum value of  $M$  and minimum value of  $m$ , amplitude is defined as  $(M - m)/2$
- For  $f(x) = \sin(x + a)$ , it is known that  $-1 \leq \sin x \leq 1$ , so  $M = 1$  and  $m = -1$
- So, amplitude = 1
- For  $y = \sin(x + a)$ , amplitude =  $|a|$
- Amplitude is also equal to  $|a|$  for  $y = \cos(x + a)$

### PHASE SHIFT

- For graph of  $y = \sin(x + a)$ , zero occurs when  $ax + a = 0$  or  $x = -a/b$
- $-a/b$  is the phase shift
- If  $-a/b < 0$ , then graph of  $y = \sin(x + a)$  is translated  $|a/b|$  to the left
- If  $-a/b > 0$ , then translation is  $|a/b|$  to the right
- For  $y = \cos(x + a)$ , the phase shift is also  $-a/b$

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**Dianna L. Zook**



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