

Trigonometric Functions

When terminal side of a standard angle θ passes through the point
(a, b), which is a distance of $r = \sqrt{a^2 + b^2}$ from the origin, then the
six trigonometric functions for this angle can be defined as follows:

$$\sin \theta = \frac{b}{r}$$

$$\csc \theta = \frac{r}{b}$$

$$\cos \theta = \frac{a}{r}$$

$$\sec \theta = \frac{r}{a}$$

$$\tan \theta = \frac{b}{a}$$

$$\cot \theta = \frac{a}{b}$$

$$\sin \theta = \frac{y}{r}$$

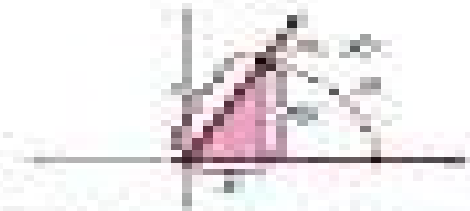
$$\csc \theta = \frac{r}{y}$$

$$\cos \theta = \frac{x}{r}$$

$$\sec \theta = \frac{r}{x}$$

$$\tan \theta = \frac{y}{x}$$

$$\cot \theta = \frac{x}{y}$$



Standard angles θ are given
counter-clockwise from 0 to 360.
These values are indicated through
arrows.

Example: Suppose standard angle θ has terminal side
passing through the point (2, 3). If

(a) Show angle θ is in standard position.

(b) Find the distance from (2, 3) to the origin using $r = \sqrt{a^2 + b^2}$.

(c) Evaluate the six trigonometric functions for this angle.

$$\sin \theta = \frac{3}{5}$$

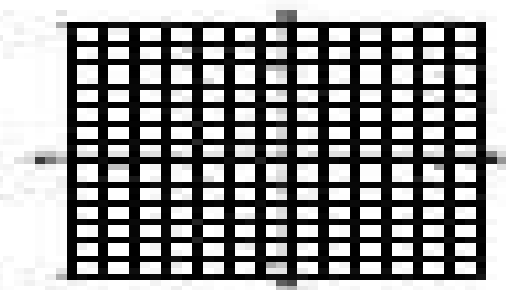
$$\csc \theta = \frac{5}{3}$$

$$\cos \theta = \frac{2}{5}$$

$$\sec \theta = \frac{5}{2}$$

$$\tan \theta = \frac{3}{2}$$

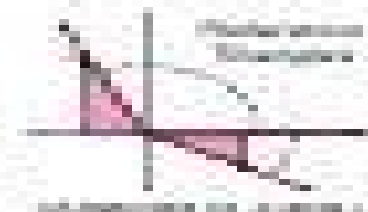
$$\cot \theta = \frac{2}{3}$$



(d) Suppose angle θ measures approximately -22.6° . Use the calculator values for this angle
to find what trigonometric angle makes the opposite overadjacent $\tan \theta$. Suppose:

NOTES:

"Reference triangle" can be formed by drawing a perpendicular segment
drawn from the terminal side of the angle to the x-axis. This perpendicular
segment (a positive value) and the "adjacent" side, which distance from
the horizontal distance from origin (or x-value) becomes the "adjacent"
side. Also, however, this adjacent and adjacent legs can be negative.



adjacent leg	opposite leg	θ is measured
adjacent leg	opposite leg	adjacent leg
adjacent leg	opposite leg	adjacent leg

Hs Mathematics Unit 03 Lesson 03

S Marginson



Hs Mathematics Unit 03 Lesson 03:

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