

Trigonometric Functions

If the 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:

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

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

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

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

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

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

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

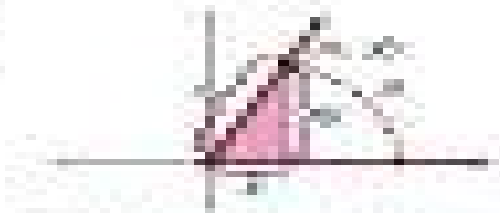
$$\csc \theta = \frac{r}{y}$$

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

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

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

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



Recall that standard angles are given
 counter-clockwise from 0 to 360.
 Does this definition work for angles
 other than 0 to 360?

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

(a) What angle θ is this? (approximately)

(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:

$$\sin \theta =$$

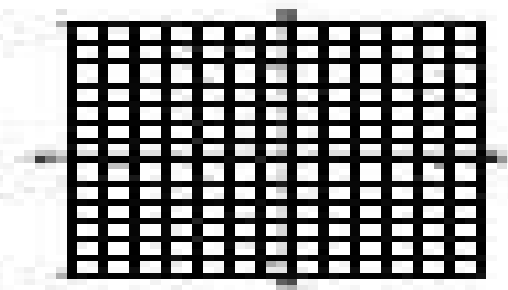
$$\csc \theta =$$

$$\cos \theta =$$

$$\sec \theta =$$

$$\tan \theta =$$

$$\cot \theta =$$



(d) Suppose angle θ measures approximately -22.5° . Use the calculator values for this angle
 to find what length of the angle makes the opposite $\sin(\theta) = \frac{1}{2}$. Suppose

Notes:

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



θ is negative (deg)	θ is negative (deg)	θ is negative
opposite is negative, but perpendicular reference triangle is negative, but perpendicular	opposite is negative, but perpendicular reference triangle is negative, but perpendicular	opposite is negative, but perpendicular reference triangle is negative, but perpendicular

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