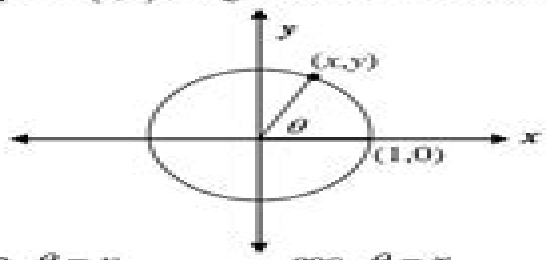
9.1 Circular Functions

Let (x, y) be any point on the unit circle. If θ is a real number that represents the distance from the point $(1,0)$ along the circumference to the point (x, y), then



$\sin\ \theta = y$ $\quad\cos\ \theta = x$ $\quad\tan\ \theta = \frac{y}{x}$

$\csc\ \theta = \frac{1}{y}$ $\quad\sec\ \theta = \frac{1}{x}$ $\quad\cot\ \theta = \frac{x}{y}$

The coordinates of the points along the unit circle can be written as $(\cos\theta, \sin\theta)$ and since θ is a real number, the trigonometric functions are often called ***circular functions***.

Example 1

Find the exact values for

a. $\sin\frac{5\pi}{4}$ $\quad$ *b.* $\cos\frac{7\pi}{6}$ $\quad$ *c.* $\tan\left(-\frac{3\pi}{2}\right)$

Solution

Example 2

Evaluate the six trigonometric functions for $\theta = \frac{5\pi}{4}$.

Solution

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Arthur F. Coxford,Joseph Neal Payne

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Trigonometric functions and linear transformation , Preliminaries: Trigonometric and Linear Transformations , **Analytic Properties of Trigonometric Functions** Bernard Feldman,1974 **Circular Functions and Graphs** Alpha & Omega Publishing,2001-03-01 **Notes on the Circular Functions** Jeffrey Dennis Weston,University College of Swansea. Department of Pure Mathematics,1966 **Trigonometric Functions** ,1966 **A Guided Discovery Approach to Teaching Transformations of Trigonometric Functions** ,2010 Some Transformations from a Unit Circle with Line Values of the Sine Function ,1952 **Trigonometric and circular functions** Arthur F. Coxford,Joseph Neal Payne,1972 **Trigonometric Functions** Alexey A. Panchishkin,E. Shavgulidze,1988 *Tables of Trigonometric Functions for the Numerical Computation of Electron Density in Crystals* I. M. Kuntsevich,Sheleg,1967 *Algebraic and Circular Functions* Ronald C. Paterson,1976

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