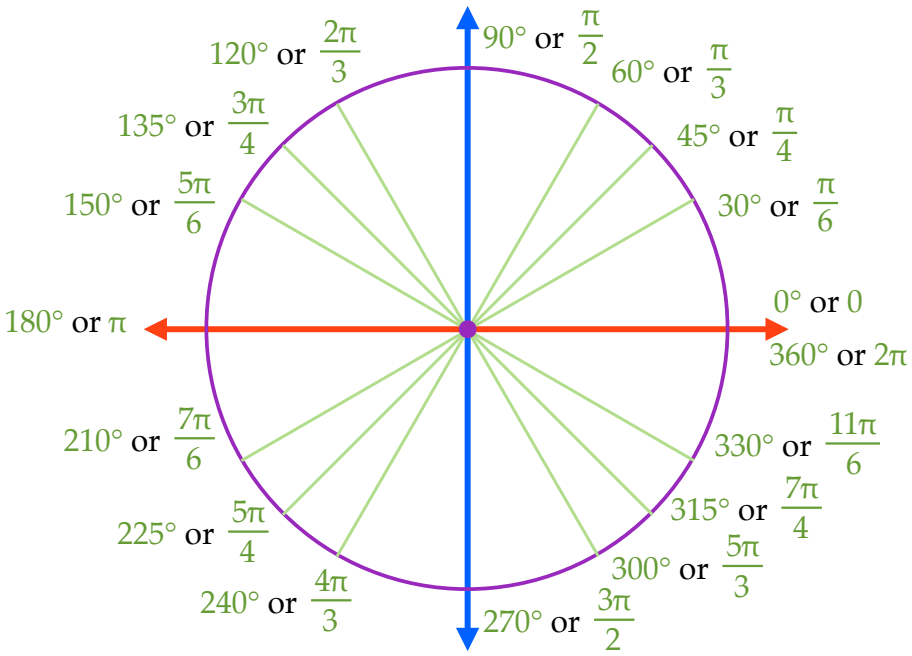
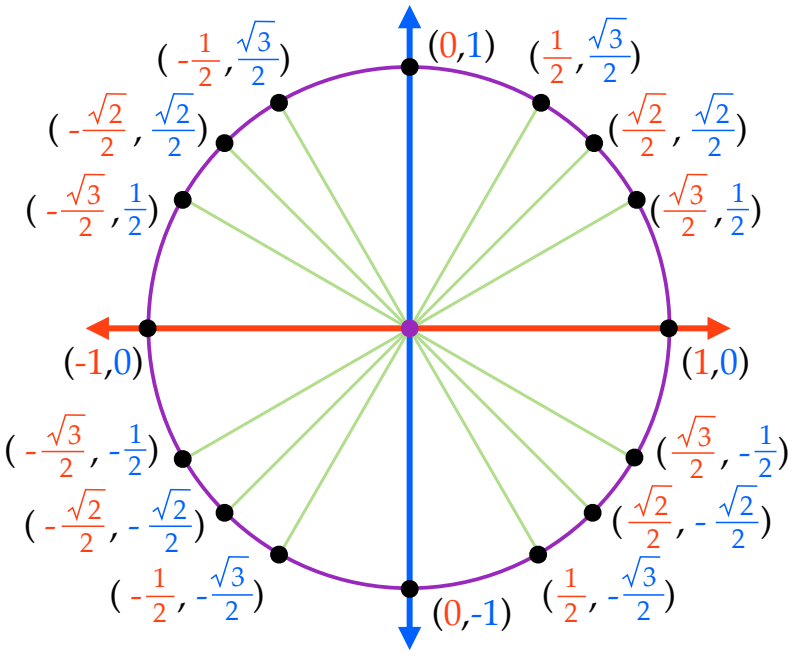
Name _____
Date _____ Period _____



Let $\theta$ be an angle of the unit circle and $(x,y)$ be the point on the unit circle corresponding to $\theta$, then...

$\sin\theta = y$ $\quad$ $\csc\theta = \frac{1}{y}$ $\quad y \neq 0$ $\quad$ reciprocal of $y$

$\cos\theta = x$ $\quad$ $\sec\theta = \frac{1}{x}$ $\quad x \neq 0$ $\quad$ reciprocal of $x$

$\tan\theta = \frac{y}{x}$ $\quad x \neq 0$ $\quad$ $\cot\theta = \frac{x}{y}$ $\quad y \neq 0$ $\quad$ reciprocal of $\tan\theta$

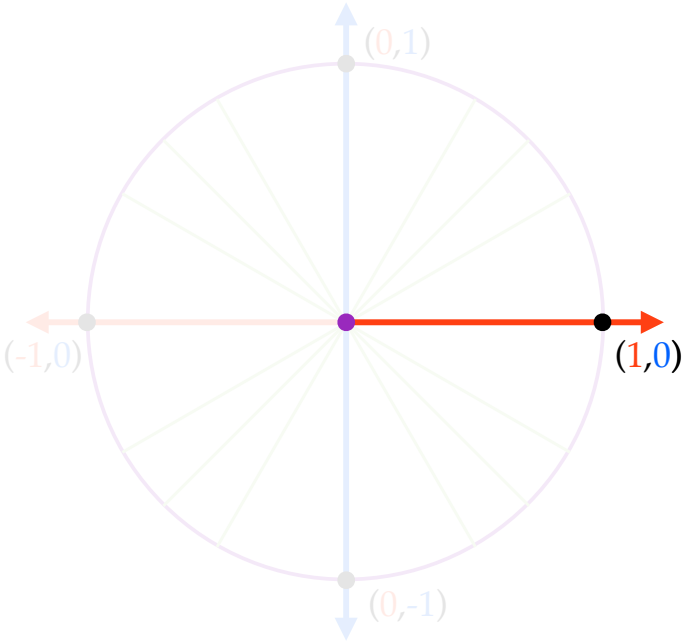
Evaluate the six trigonometric values of the following angles

$\theta = 0 = 0°$

$\sin\theta = y$ $\quad$ $\csc\theta = \frac{1}{y}$

$\cos\theta = x$ $\quad$ $\sec\theta = \frac{1}{x}$

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



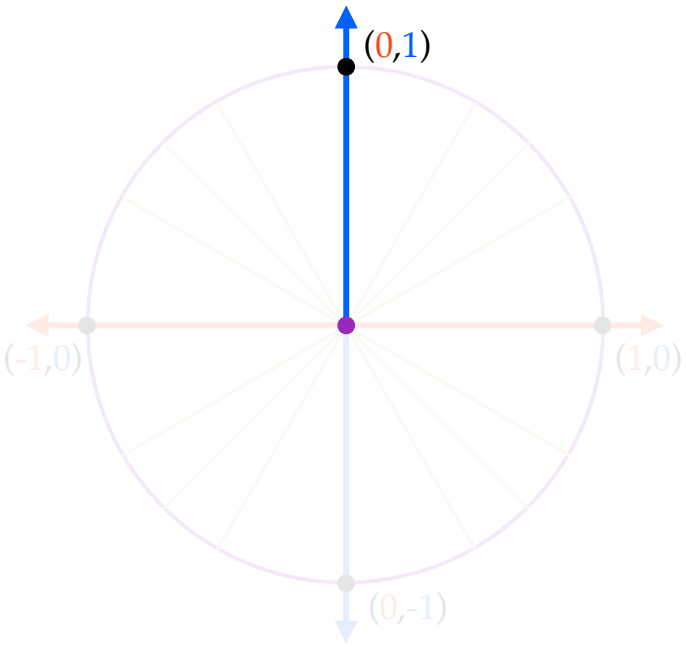
Evaluate the six trigonometric values of the following angles

$\theta = \frac{\pi}{2} = 90°$

$\sin\theta = y$ $\quad\quad$ $\csc\theta = \frac{1}{y}$

$\cos\theta = x$ $\quad\quad$ $\sec\theta = \frac{1}{x}$

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



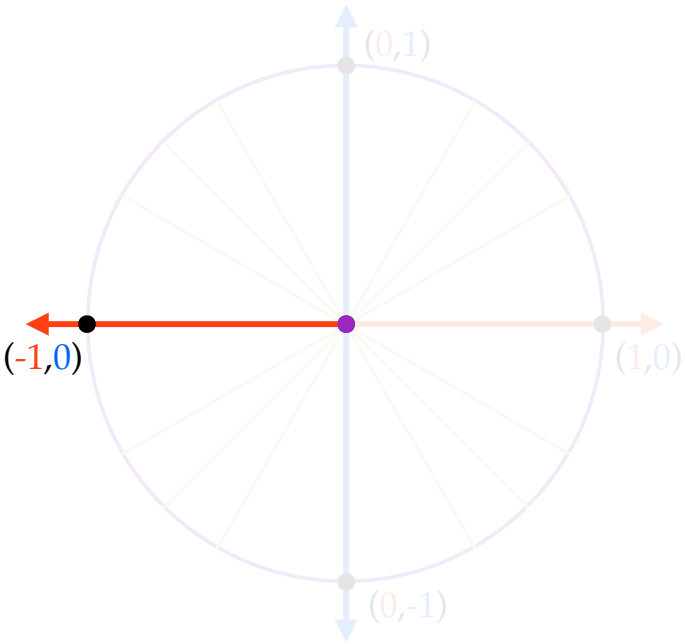

Evaluate the six trigonometric values of the following angles

$\theta = \pi = 180°$ $\quad$ (-1,0)

$\sin\theta = y$ $\quad\quad$ $\csc\theta = \frac{1}{y}$

$\cos\theta = x$ $\quad\quad$ $\sec\theta = \frac{1}{x}$

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



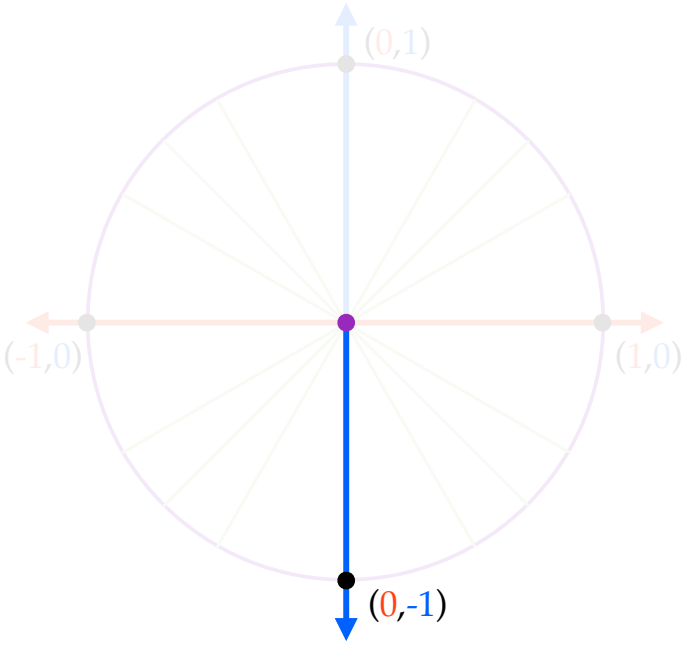
Evaluate the six trigonometric values of the following angles

$\theta = \frac{3\pi}{2} = 270°$

$\sin\theta = y$ $\quad\quad$ $\csc\theta = \frac{1}{y}$

$\cos\theta = x$ $\quad\quad$ $\sec\theta = \frac{1}{x}$

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



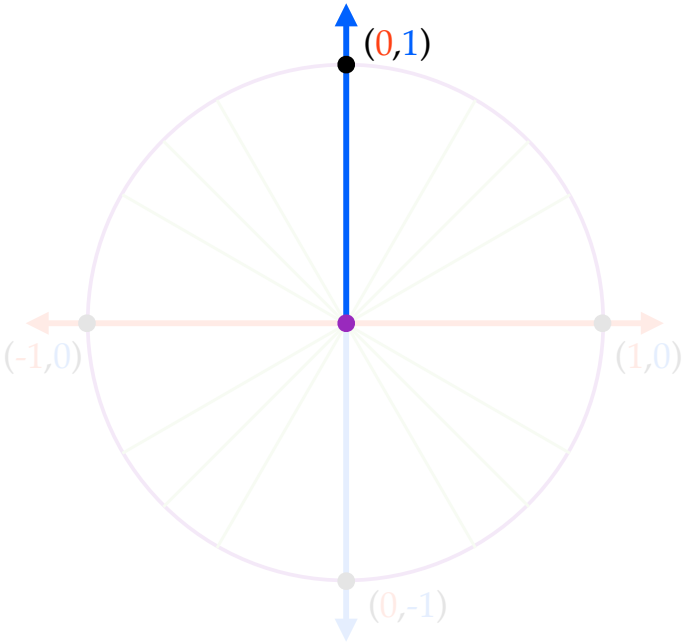

Evaluate the six trigonometric values of the following angles

$\theta = -\frac{3\pi}{2} = -270°$

$\sin\theta = y$ $\quad\quad$ $\csc\theta = \frac{1}{y}$

$\cos\theta = x$ $\quad\quad$ $\sec\theta = \frac{1}{x}$

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



Let $\theta$ be an angle of the unit circle and $(x,y)$ be the point on the unit circle corresponding to $\theta$, then...

$\sin\theta = y$ $\quad\quad$ $\csc\theta = \frac{1}{y}$ $\quad y \neq 0$ $\quad$ reciprocal of $y$

$\cos\theta = x$ $\quad\quad$ $\sec\theta = \frac{1}{x}$ $\quad x \neq 0$ $\quad$ reciprocal of $x$

$\tan\theta = \frac{y}{x}$ $\quad x \neq 0$ $\quad\quad$ $\cot\theta = \frac{x}{y}$ $\quad y \neq 0$ $\quad$ reciprocal of $\tan\theta$