

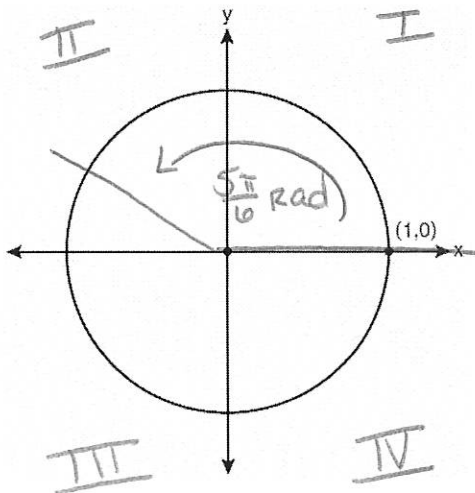
Key

Extra Quiz 6.1 Review

Complete the table below

θ	$\sin\theta$	$\cos\theta$	$\tan\theta$
135° QII (Ref $\rightarrow 45^\circ$)	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$	-1
$\frac{3\pi}{2}$ radians (270°)	-1	0	undefined
0 radians	0	1	0
$\frac{\pi}{3}$ radians (60°)	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
240° QIII (Ref $\rightarrow 60^\circ$)	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$\sqrt{3}$
180°	0	-1	0
$\frac{\pi}{4}$ radians (45°)	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1

Sketch an angle of $\frac{5\pi}{6}$ radians on the unit circle below. Find the exact value of $\tan\frac{5\pi}{6}$.



$$\begin{aligned} \tan\frac{5\pi}{6} &= -\tan\frac{\pi}{6} \\ &= -\frac{\sqrt{3}}{3} \end{aligned}$$

Find two positive and two negative coterminal angles for $\theta = 179^\circ$

Pos:

$$179 + 360 = 539^\circ$$

$$539 + 360 = 899^\circ$$

Neg:

$$179 - 360 = -181^\circ$$

$$-181 - 360 = -541^\circ$$

Convert 183.5679° to the nearest minute.

183.5679 2nd Apps 4: DMS

$$183^\circ 34' 4.44''$$

$$183^\circ 34'$$

Convert $96^\circ 32' 15''$ to decimal degrees. Round to the nearest ten-thousandth.

$$96 \text{ 2nd Apps } 1:^\circ$$

$$32 \text{ 2nd Apps } 2:'$$

$$15 \text{ 2nd } +$$

$$96.5375^\circ$$