## Solve for $\theta$ :

## Example 1

$\cos \theta=\frac{-1}{\sqrt{2}}$, given that the terminal arm of $\theta$ is in quadrant III

## Example 2

$\sin \theta=\frac{\sqrt{3}}{2}$, given that the terminal arm of $\theta$ is in quadrant II

## Example 3

$\tan \theta=\frac{1}{\sqrt{3}}$, given that the terminal arm of $\theta$ is in quadrant III

## Example 4

$\sin \theta=\frac{1}{3}$, given that the terminal arm of $\theta$ is in quadrant I

## Example 5

$\tan \theta=\frac{-4}{5}$, find both answers for $\theta$, where $0 \leq \theta \leq 2 \pi$

## Example 6

$\cos \theta=\frac{-7}{8}$, find both answers for $\theta$, where $0 \leq \theta \leq 2 \pi$

## Example 7

$\csc \theta=-2$, find both answers for $\theta$, where $0 \leq \theta \leq 2 \pi$

## Example 8

$\cot \theta=\frac{3}{4}$, find both answers for $\theta$, where $0 \leq \theta \leq 2 \pi$

