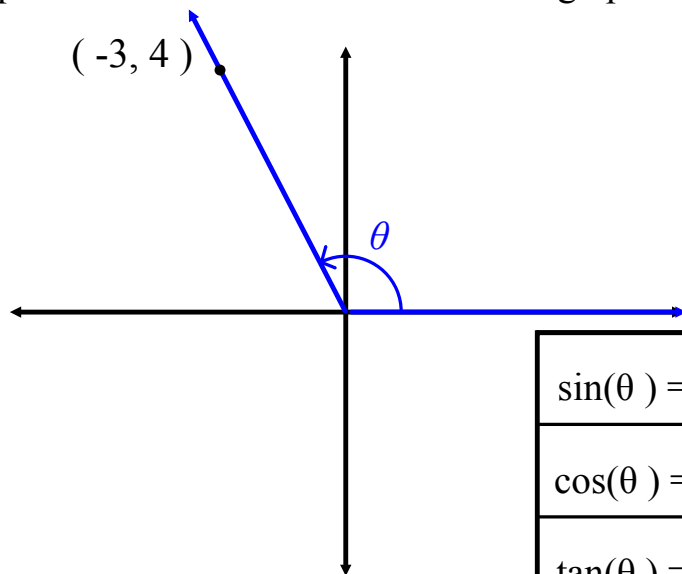


# Algebra II

12-3

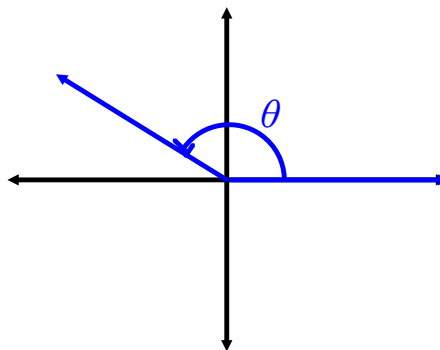
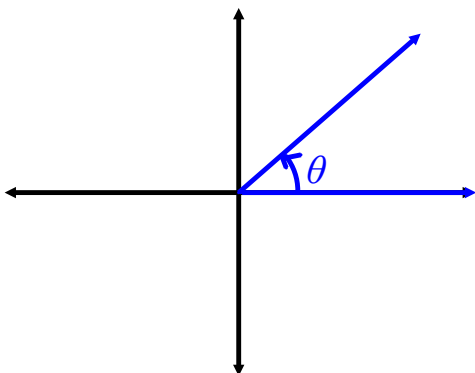
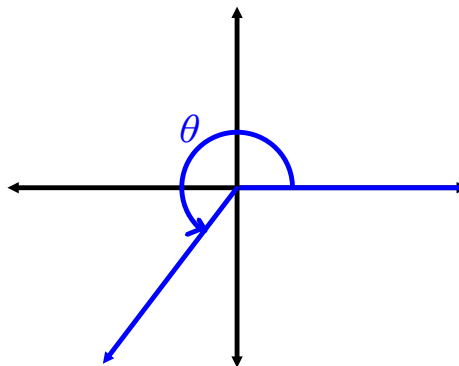
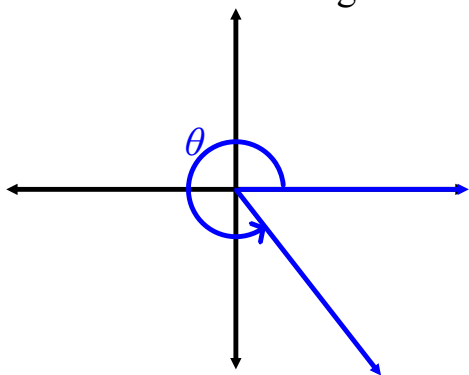
## Trigonometric Functions of General Angles

Find the values of the six trigonometric functions for the angle in standard position with the terminal side through point  $(-3, 4)$ .



$\sin(\theta) =$		$\csc(\theta) =$	
$\cos(\theta) =$		$\sec(\theta) =$	
$\tan(\theta) =$		$\cot(\theta) =$	

Draw the reference angle for each angle  $\theta$  in standard position.  
Label each reference angle  $\alpha$ .



Find the measure of the reference angle  $\alpha$  of the given angle  $\theta$ .

9)  $\theta = 233^\circ$

Find the exact value of the six trigonometric functions of each angle.

37)  $330^\circ$

$\sin(\theta) =$		$\csc(\theta) =$	
$\cos(\theta) =$		$\sec(\theta) =$	
$\tan(\theta) =$		$\cot(\theta) =$	

First, give the quadrant of angle  $\theta$ . Then find the five other trigonometric function of  $\theta$ .

45)  $\cos \theta = -\frac{8}{17}, 0^\circ < \theta < 180^\circ$

$\sin(\theta) =$		$\csc(\theta) =$	
$\cos(\theta) =$		$\sec(\theta) =$	
$\tan(\theta) =$		$\cot(\theta) =$	

Complete the table. If any value is undefined, so state.

5)  $\theta = 0^\circ$

$\sin(\theta) =$		$\csc(\theta) =$	
$\cos(\theta) =$		$\sec(\theta) =$	
$\tan(\theta) =$		$\cot(\theta) =$	

Name all angles  $\theta$ ,  $0^\circ \leq \theta < 360^\circ$ , that make the statement true.

61)  $\cos \theta = -\frac{\sqrt{3}}{2}$

Assignment:

Pg. 566

1-4 all, 6-24 even,

38-52 even, 60-66 even