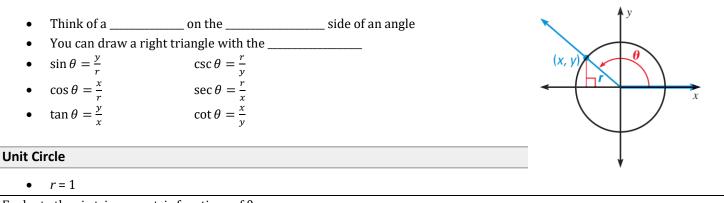
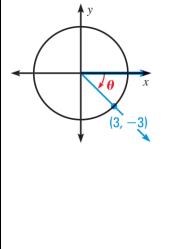
### Algebra 2 10-03

# Algebra 2

## 10-03 Trigonometric Functions of Any Angle



Evaluate the six trigonometric functions of  $\boldsymbol{\theta}.$ 



## **Quadrantal Angles**

Evaluate the six trigonometric functions of  $\theta$ .  $\theta = 180^{\circ}$ 

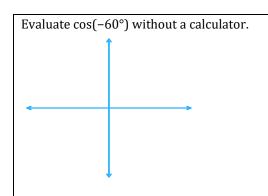
### **Reference Angle**

- Angle between \_\_\_\_\_\_ side and \_\_\_\_\_\_
- Has the same values for trig functions as \_\_\_\_\_\_ quadrant angles
- You just have to add the \_\_\_\_\_\_ signs

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Algebra 2 10-03		Name:
Sketch the angle. Then find its reference angle.		
150°	$\frac{23\pi}{4}$	
↑		
← → →	<	<b>→</b>



sin(-150°)		
1		
← →		
Ļ		

Estimate the horizontal distance traveled by a Red Kangaroo who jumps at an angle of 8° and with an initial speed of 53 feet per second (35 mph).

542 #1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 25, 29, 33, 35, 41, 51, 53, 57, 58, 59 = 20