DATE: _____

Trig Extended: Circular Functions

Review of Prior Concepts

(PARCC Sample Question)

1. Angle θ is in Quadrant I, and $\sin\theta = \frac{4}{5}$. What is the value of $\cos\theta$?

A. $\frac{4}{5}$

B. $\frac{3}{5}$

C. $-\frac{3}{5}$

D. $-\frac{4}{5}$

(ACT Sample Question)

2. In the following triangle, what is the value of $\sec n$?

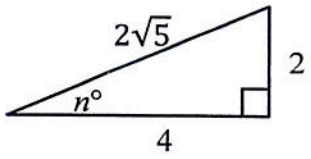
A. $\sqrt{5}$

B. $2\sqrt{5}$

C. $\frac{\sqrt{5}}{2}$

D. $\frac{\sqrt{5}}{5}$

E. $\frac{2\sqrt{5}}{5}$



Key Idea	Definition (in your own words)	Sketch/Drawing/Diagram
Initial Side		
Vertex		
Terminal Side		
Positive Angles		
Negative Angles		
Standard Position		
Coterminal Angles		

Examples

State the quadrant in which the terminal side of each angle lies.

1) $-15°$

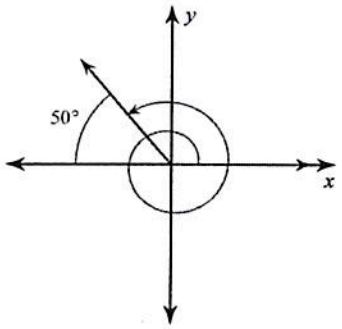
2) $152°$

3) $-\frac{3\pi}{4}$

4) $\frac{7\pi}{6}$

Find the measure of each angle.

5)



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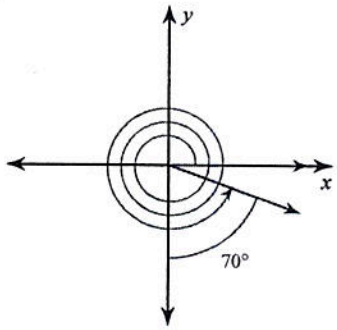

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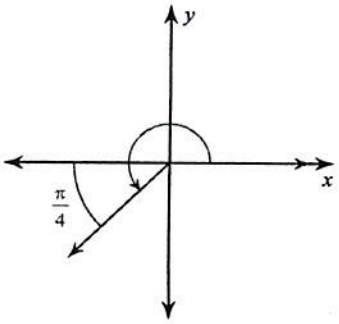

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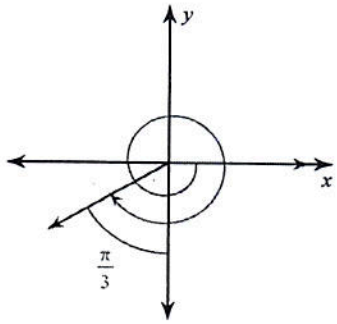
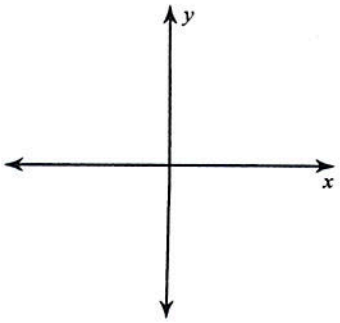
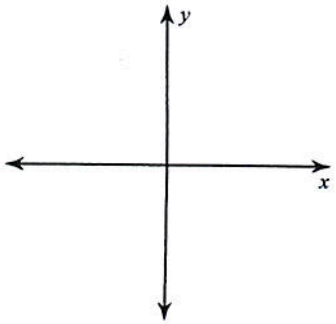


Draw an angle with the given measure in standard position.

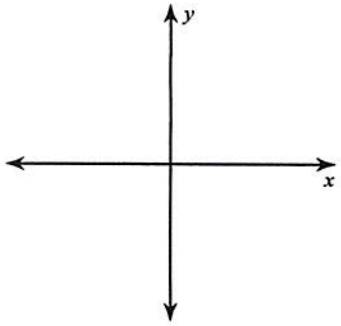
9) $-155°$



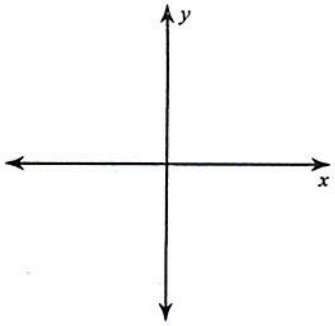
10) $425°$



11) $-\frac{\pi}{3}$



12) $\frac{3\pi}{2}$



State if the given angles are coterminal.

13) 185°, −535°

14) 70°, −430°

Find a positive and a negative coterminal angle for each given angle.

15) −105°

16) 314°

17) $\frac{11\pi}{6}$

18) $-\frac{\pi}{2}$