## **Chapter 9 Practice Test 2**

Name	e						
In wł	nich qu	adrant are the	following angles?				
	1.	-100°	2.	130°		3.	-300°
	4.	$\frac{5\pi}{3}$	5.	$\frac{5\pi}{4}$		6.	$-\frac{2\pi}{3}$
Tell i	f the fol	llowing two ang	gles are coterminal of	r not coterminal.			
		7.	-210° and 120°	<u> </u>	8.	10° an	d 310°
		9.	$\frac{\pi}{5}$ and $-\frac{9\pi}{5}$		10.	$\frac{\pi}{2}$ and	$1\frac{7\pi}{2}$
		11.	$-\frac{\pi}{2}$ and $\frac{3\pi}{2}$		12.	-180° a	and 180°
Give	<b>the ref</b>	erence angle fo 160°	or each angle given. 14.	-120°		15.	210°
	16.	$\frac{5\pi}{3}$	17.	$\frac{5\pi}{6}$		18.	$-\frac{2\pi}{3}$
Find the gi	the valu ven coc	es of certain fu ordinates lies or	nctions of an angle in its terminal side.	n standard positio	n with measure	$e \  heta$ if th	e point with
19.	Coord	dinates (4, 3)	Sin $\theta$ =	$\cos \theta = \_$	_ Tan <i>t</i>	9=	_
20.	Coord	dinates (9, 40)	Sin $\theta =$	$\cos \theta = \underline{\qquad}$	_ Tan <i>t</i>	9=	_
21.	When $\cos \theta = \frac{7}{25}$ and the terminal side of $\theta$ is in the 1 <sup>st</sup> quadrant, find						
	Sin 6	) =	Csc $\theta =$	Tan $\theta =$	_ Cot 6	)=	-
22.	Wher	$h\cos\theta = \frac{10}{26}$ a	nd the terminal side of	of $\theta$ is in the 1 <sup>st</sup> qu	uadrant, find		
	Sin 6	) =	Sec $\theta = $	Tan $\theta =$	_ Csc <i>e</i>	9=	_

23. Give the radian measurement and point location for a unit circle.

Degree	Radian	Point location
45		
120		
180		
210		
330		

- 24. In radians, what is 80°?
- 25. In degrees, what is  $\frac{\pi}{90}$ ?
- 26. In radians, what is  $4^{\circ}$ ?
- 27. In degrees, what is  $\frac{11\pi}{18}$ ?

Given the coordinate point, determine the angle formed with the x-axis in the **first** quadrant. Assume that the angle opens **counterclockwise** (in other words, all angles are to be positive).

- 28. (-2, 6)  $\theta \approx$
- 29. (3, 7)  $\theta \approx$  \_\_\_\_\_
- 30. (4, -2)  $\theta \approx$  \_\_\_\_\_

31. A plane is flying due East and is located at the point (2, 8). It now must turn North and head to the point (12, 18). How many degrees must it turn?