Chapter 13: Periodic Functions and Tig Converting Between Radian and Degree Measures



Sketch each angle in standard position 1) 45° angle 2) 225° angle

3) -135ºangle

4) 370° angle

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1) 210 ^o	2) -120°	3) 30°	4) 390 ^o

Name:		Da	ate:	Block:
Determine the coterminal angle for the given angle.				
1. 60°	2150°	3. 200°	4. 270 [°]	580°



1) 30° 2) 90° 3) -135° 4) 260°

Find the exact degree measure that corresponds to the radian measure. If necessary, round to the nearest tenth of a degree.

1) $\frac{\pi}{3}$ 2) $-\frac{5\pi}{3}$	3) 6π radians	4) 1.2 π radians
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Determine the quadrant in which the terminal side of the angle lies, then sketch the angle in standard form.

1)
$$\frac{\pi}{4}$$
 2) $-\frac{2\pi}{3}$ 3) $-\frac{\pi}{6}$ 4) 5 radians

The Unit Circle



Using the Unit Circle

Use the unit circle to find the exact value of each trigonometric function.

2. $\sin(-\pi)$ **1.** $\cos 210^{\circ}$ **3.** $sin 150^{\circ}$ **4.** $\cos 150^{\circ}$

Name:		Date:	Block:	
$5. \ \cos\frac{-2\pi}{3}$	6. $\cos\frac{2\pi}{3}$	7. $\sin \frac{11\pi}{6}$	8. $\cos\frac{4\pi}{3}$	
Periodic functions				
A periodic function r	epeats a pattern of y-values at	regular intervals called cycles.		

The <i>period</i> of a function is the horizontal length on one	The <i>amplitude</i> is half the difference between the
cycle.	maximum and minimum values of the function.

Find the period and amplitude of each function.





Period:_____

Amplitude:_____



Amplitude:_____

3. 4^{4}^{7} 2^{-1}^{-1} 0^{-1} 1^{-1} $1^$ 4.



Period:_____

Amplitude:_____

Period:_____

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