10.2 Extra Practice					ds			
In Exercises 1–6, draw an angle in standard position have the given measure.								
1.	260°	2.	400°	3.	-200°			
In Exercises 4–6, find one positive angle and one negative angle that are coterminal with the given angle								
4.	225°	5.	-420°	6.	-990°			
In Exercises 7–12, convert the degree measure to radians or the radian measure to degrees.								
7.	200°	8.	1°	9.	-475°			
10.	$\frac{3\pi}{10}$	11.	$\frac{5\pi}{12}$	12.	6			
In Exercises 13–15, match the angle measure with the angle.								
13.	-300°	14.	$\frac{5\pi}{3}$	15.	$\frac{-11\pi}{6}$			
Α.		В.	Ay T	C.	Ay			



- 16. There are 60 minutes in 1 degree of arc, and 60 seconds in 1 minute of arc. The notation 50° 30'10" represents an angle with a measure of 50°, 30 minutes, and 10 seconds.
 - **a.** Write the angle measure 160.44° using the notation above.
 - **b.** Write the angle measure $98^{\circ}15'45''$ to the nearest hundredth of a degree.

1.

dds

10.4 Extra Practice

In Exercises 1 and 2, identify the amplitude and period of the graph of the function.



In Exercises 3-6, identify the amplitude and period of the function. Then graph the function and describe the graph of g as a transformation of the graph of its parent function.

- **3.** $g(x) = 4 \sin x$ **4.** $g(x) = \cos \pi x$
- **5.** $g(x) = 5 \sin 4x$ **6.** $g(x) = \frac{1}{4} \cos 2x$
- 7. Write an equation of the form $y = a \cos bx$, where a > 0 and b > 0, so that the graph has the given amplitude and period.

a.	amplitude: 1	b.	amplitude: 3
	period: 3		period: 4
c.	amplitude: 12	d.	amplitude: $\frac{1}{3}$
	period: 2π		period: π

In Exercises 8–11, graph the function.

- 8. $g(x) = \cos x + 3$ 9. $g(x) = 2 \sin x - 1$ 10. $g(x) = \sin \frac{1}{2}(x - \pi) - 2$ 11. $g(x) = \cos \frac{1}{2}(x + \pi) - 4$
- In Exercises 12 and 13, write a rule for *g* that represents the indicated transformations of the graph of *f*.
 - 12. $f(x) = \frac{1}{2} \cos 3x$; translation 2 units up, followed by a reflection in the line y = 2
 - **13.** $f(x) = \frac{1}{3} \sin \pi x$; translation 3 units down, followed by a reflection in the line y = -3