

13.  $\left(\frac{y}{3}\right)^2 + \left(\frac{x}{3}\right)^2 = 1$  or  $y^2 + x^2 = 9$

14.  $\left(\frac{x-3}{2}\right)^2 + \left(\frac{y-1}{2}\right)^2 = 1$  or  $(x-3)^2 + (y-1)^2 = 4$

15.  $\left(\frac{y-1}{3}\right)^2 + \left(\frac{x+3}{3}\right)^2 = 1$  or  $(y-1)^2 + (x+3)^2 = 9$

16.  $1 = x^2 - y^2$

# Chapter 6 Review Trig

1.  $\pi/6$ ,  $5\pi/6$
2.  $\pi/2$ ,  $3\pi/2$ ,  $7\pi/6$ ,  $11\pi/6$
3.  $\pi/4$ ,  $3\pi/4$ ,  $5\pi/4$ ,  $7\pi/4$
4.  ~~$\pi/3$~~ ,  ~~$5\pi/3$~~ ,  $\pi$
5.  $48.6^\circ$ ,  $131.4^\circ$ ,  $210^\circ$ ,  $330^\circ$
6.  $0$ ,  ~~$\pi$~~ ,  $\pi/2$ ,  ~~$3\pi/2$~~
7.  $40^\circ$   $80^\circ$   $160^\circ$   $200^\circ$   $280^\circ$   $320^\circ$
8.  $95^\circ$   $115^\circ$   $215^\circ$   $235^\circ$   $335^\circ$   $355^\circ$
9.  $\pi/3 + 2\pi k$ ,  $5\pi/3 + 2\pi k$ ,  $2\pi k$
10.  $\pi/2 + \frac{2\pi k}{3}$
11.  $336.42^\circ + 360k$ ,  $203.58 + 360k$   
 $90 + 360k$
12.  $111.5 + 360k$ ,  $248.5 + 360k$ .