Name $\qquad$ Period $\qquad$

1. Write an equation for the circle with center and radius 8 .
2. What is the center and radius of $?$
3. If , what is the focus? What is the equation of the directrix?
4. A parabola has its vertex at the origin and its focus at $(7,0)$. What is its equation?
5. A parabola has equation . Graph it and find the focus.
6. An ellipse is centered at the origin and has foci on the y-axis. Its major axis is 26 units long and its minor axis is 10 units long. What is the equation?
7. Graph $\quad$ and identify its center, vertices and foci.
8. Write
in standard form and identify the foci.
9. What are the equations of the asymptotes of $-\quad-\quad$ ?
10. A hyperbola is centered at the origin with foci and vertices at . What is the equation?
11. How do you tell whether a hyperbola is vertical or horizontal?
12. What are the foci and asymptotes of $\quad$ ?
13. Identify what type of conic each is, then find its center, vertices and foci.
a) $4 x^{2}+4 y^{2}-24 x+40 y-108=0$
b) $7 x^{2}-5 y^{2}-28 x+40 y-87=0$
c) $3 x^{2}+2 y^{2}-18 x-8 y+23=0$
d) $12 x^{2}-48 x-y+53=0$
