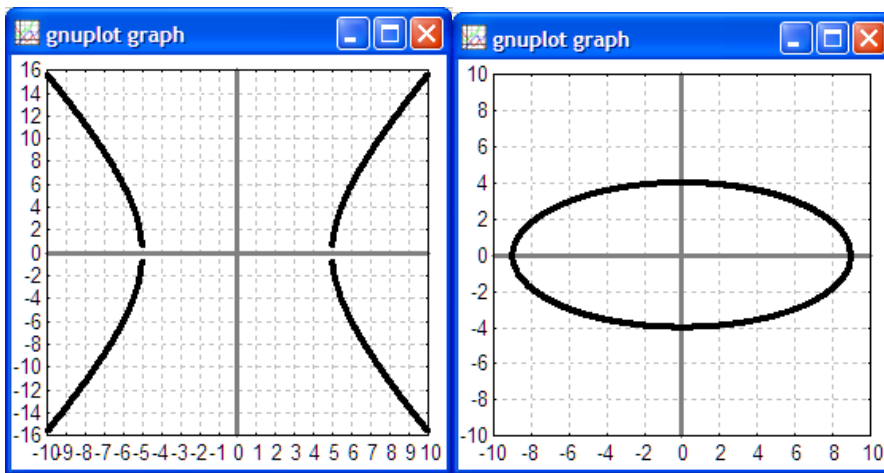


1. Give the name of the following shapes:



2. For each of the following equations, write the name of the shape formed by the equation:

a. $\frac{(x-3)^2}{25} - \frac{(y-7)^2}{9} = 1$

b. $\frac{(x-3)^2}{25} + \frac{(y-7)^2}{25} = 1$

c. $\frac{(x-3)^2}{25} + \frac{(y-7)}{25} = 1$

d. $\frac{(x-3)^2}{25} + \frac{(y-7)^2}{9} = 1$

e. For the parabola above, rewrite it in the vertex form $(y - k) = a(x - h)^2$

f. For the parabola above, given the formula $(y - k) = \left(\frac{1}{4p}\right)(x - h)^2$, find p.

g. For the parabola above, write the vertex in (h, k) form.

h. For the circle above, write the center in (h, k) form.

i. For the circle above, find the radius r.

j. Sketch the circle on the back of this sheet.

3. Solve for x and y:

$$-7x + 4y = -96$$

$$2x + 3y = 15$$