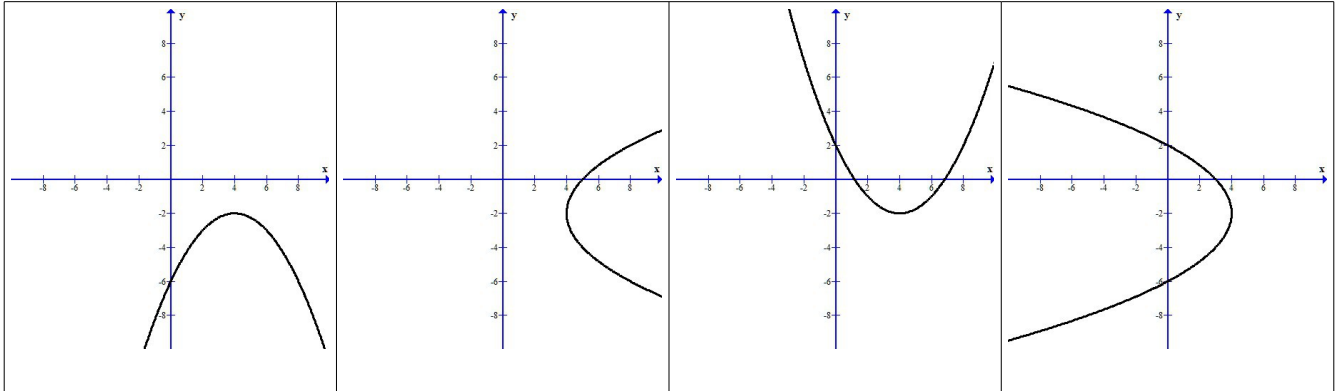


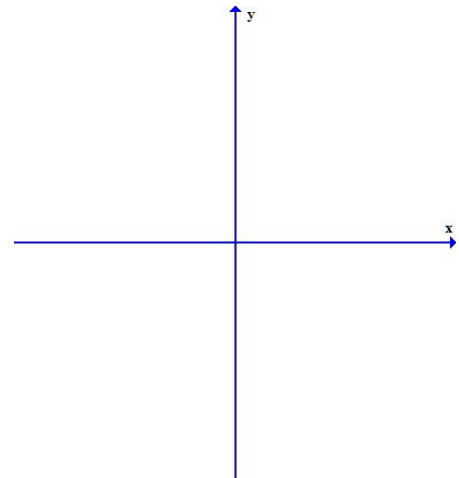
7.2 Practice Problems

Match the equation with the graph.

1. $4(y+2)=(x-4)^2$	2. $-4(y+2)=(x-4)^2$
3. $(y+2)^2=4(x-4)$	4. $(y+2)^2=-4(x-4)$



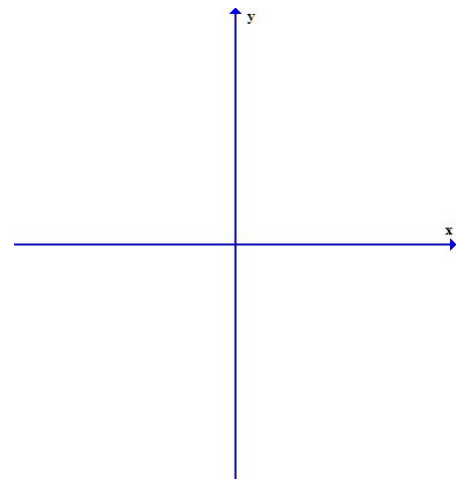
5a. Find the equation of the parabola described. Focus at $(0, -3)$ and directrix the line $y=3$



b. Find the two points that define the latus rectum.

c. Graph the parabola.

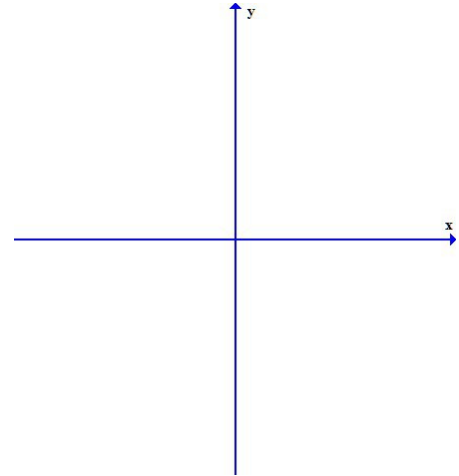
6a. Find the equation of the parabola described. Vertex at $(0,0)$, axis of symmetry is the y-axis and passes through the point $(2, -8)$.



b. Find the two points that define the latus rectum.

c. Graph the parabola.

7a. Find the equation of the parabola described. Focus at $(0, -3)$ and vertex at $(2, -3)$.



b. Find the two points that define the latus rectum.

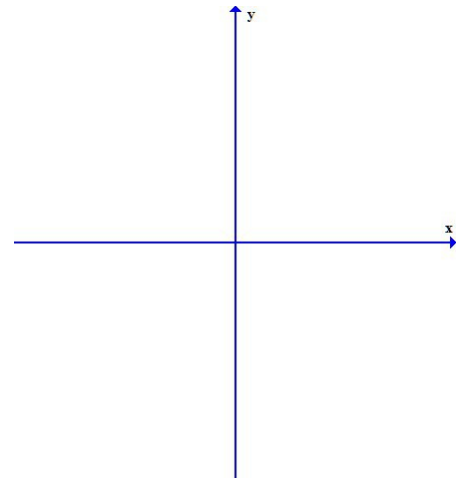
c. Graph the parabola.

8. Given the equation of a parabola find the following. $(x-3)^2 = -4(y+4)$

a. The vertex of the parabola.

b. The focus of the parabola.

c. The directrix of the parabola.



9. Given the equation of a parabola find the following. $y^2 + 12y = -x + 1$

a. Rewrite the expression using completing the square.

b. The vertex of the parabola.

c. The focus of the parabola.

d. The directrix of the parabola.

