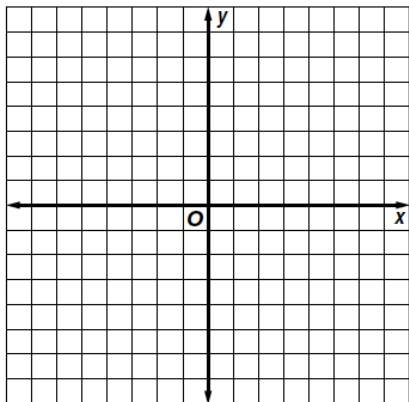


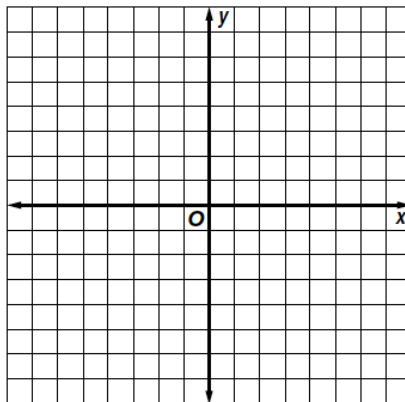
Quadratic Functions

Graph each parabola.

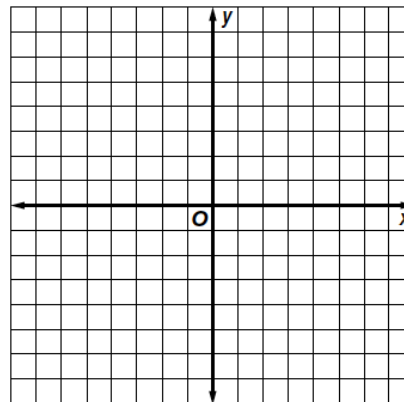
1. $f(x) = x^2$



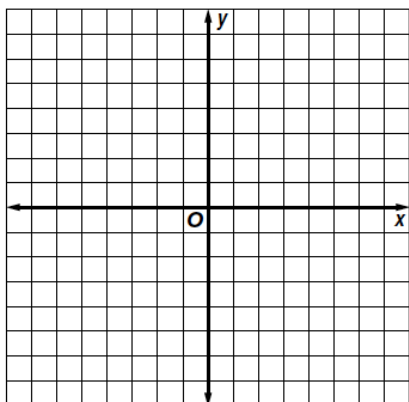
2. $f(x) = x^2 + 5$



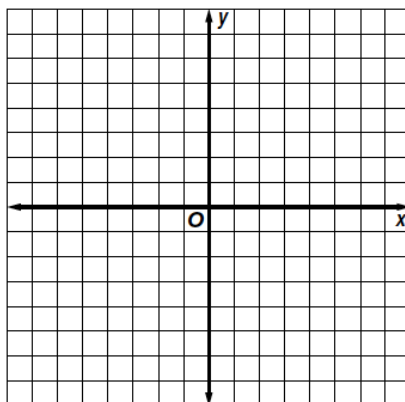
3. $f(x) = x^2 - 4$



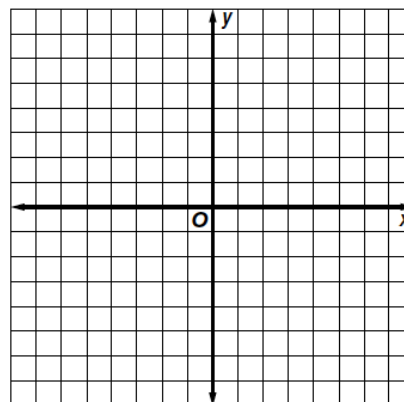
4. $f(x) = 4x^2$



5. $f(x) = \frac{1}{4}x^2$



6. $f(x) = -6x^2$



7. How are graphs 1, 2, and 3 similar? _____

8. How are graphs 4, 5, and 6 similar? _____

9. How do graphs 4 and 5 differ from graph 6? _____

10. Give the vertex and the equation for the axis of symmetry for each graph.

a. _____
vertex axis of symmetry

b. _____
vertex axis of symmetry

c. _____
vertex axis of symmetry

d. _____
vertex axis of symmetry

e. _____
vertex axis of symmetry

f. _____
vertex axis of symmetry