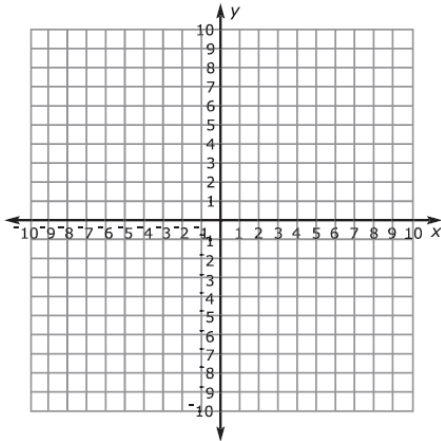


Identify the vertex and pattern of change for each quadratic equation. Graph each quadratic equation.

1) $y = 2(x+1)^2 - 10$

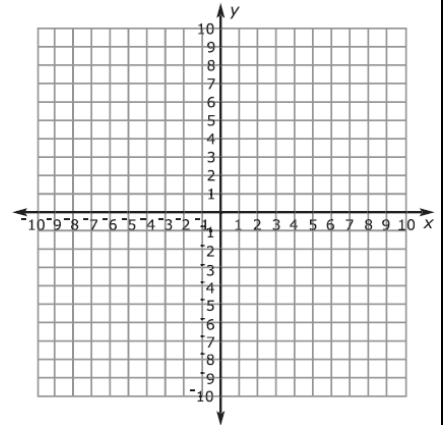
Vertex:



Pattern of Change:

2) $y = 3(x+6)^2 - 10$

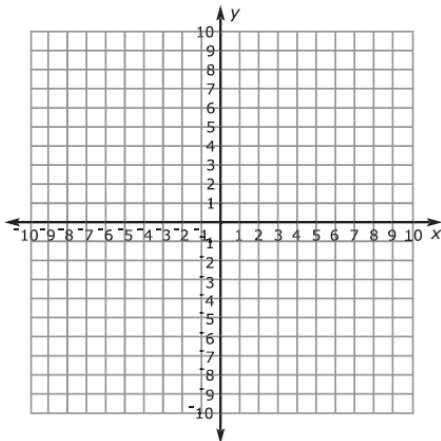
Vertex:



Pattern of Change:

3) $y = -2(x-5)^2 + 10$

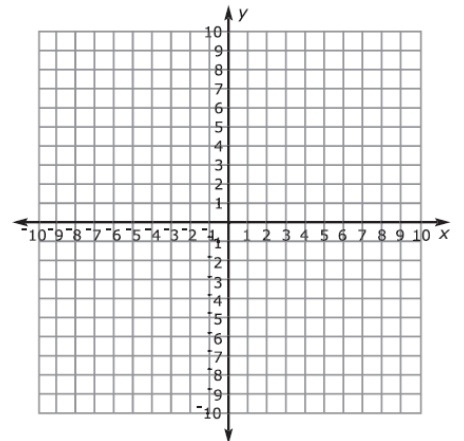
Vertex:



Pattern of Change:

4) $y = -3(x-4)^2 + 10$

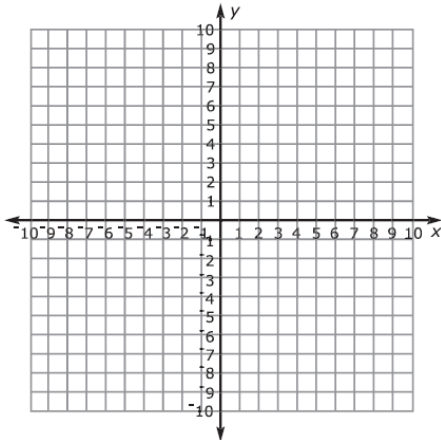
Vertex:



Pattern of Change:

5) $y = (x+3)^2$

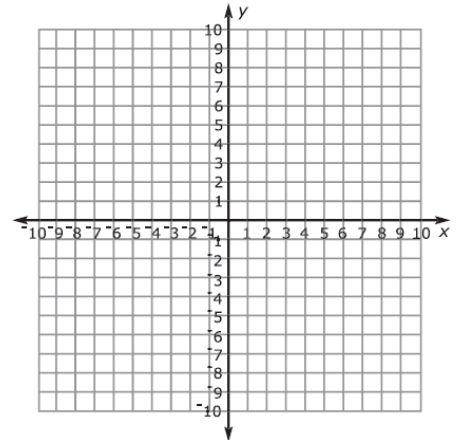
Vertex:



Pattern of Change:

6) $y = -(x-1)^2$

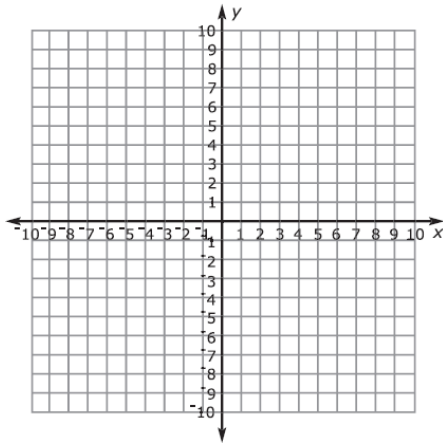
Vertex:



Pattern of Change:

7) $y = (x - 5)^2 - 7$

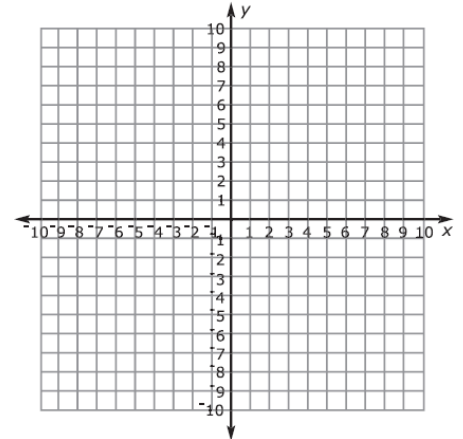
Vertex:



Pattern of Change:

8) $y = (x + 2)^2 + 3$

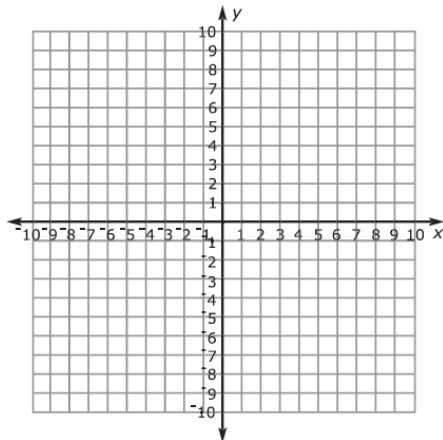
Vertex:



Pattern of Change:

9) $y = \frac{1}{2}x^2 - 8$

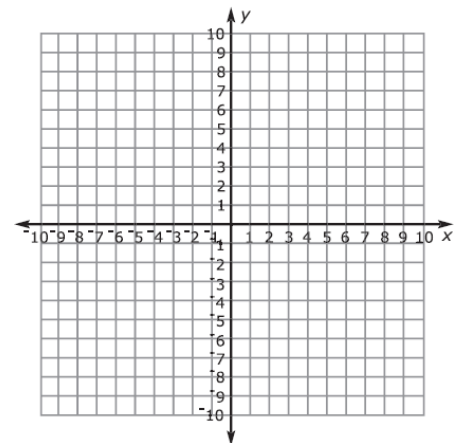
Vertex:



Pattern of Change:

10) $y = -x^2 + 7$

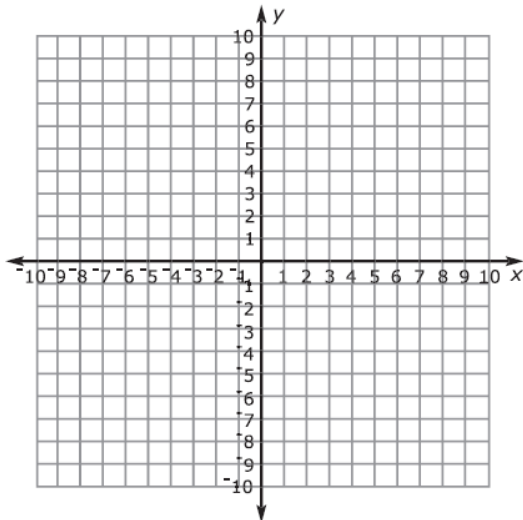
Vertex:



Pattern of Change:

The following quadratics are in standard form. Use the standard form method to graph each.

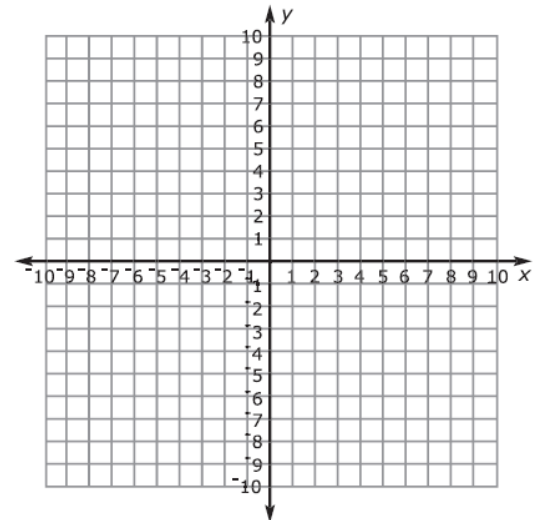
11) $y = 2x^2 - 12x + 9$



Vertex:

Pattern of Change:

12) $y = -x^2 + 6x - 5$



Vertex:

Pattern of Change: