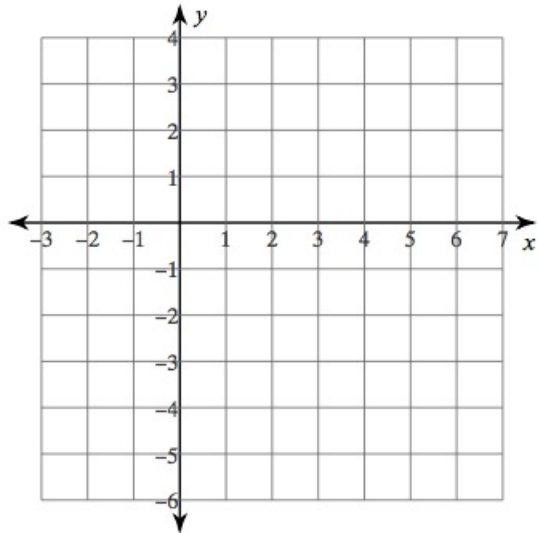
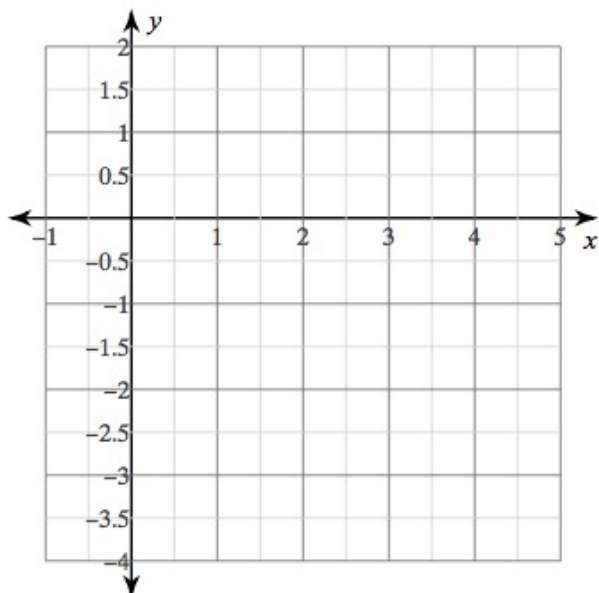


1)  $f(x) = -2(x - 1)^2 + 3$



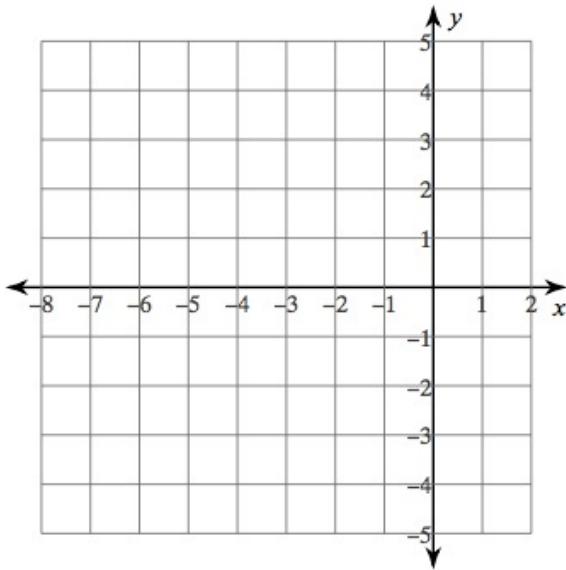
- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

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



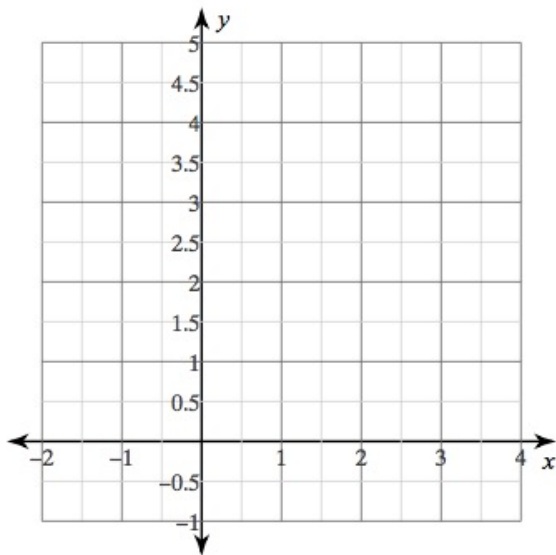
- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

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



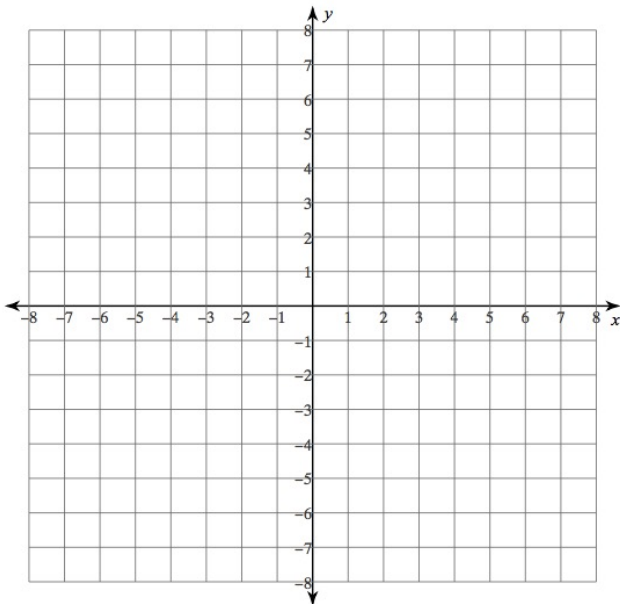
- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

4)  $f(x) = -(x - 1)^2 + 4$



- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

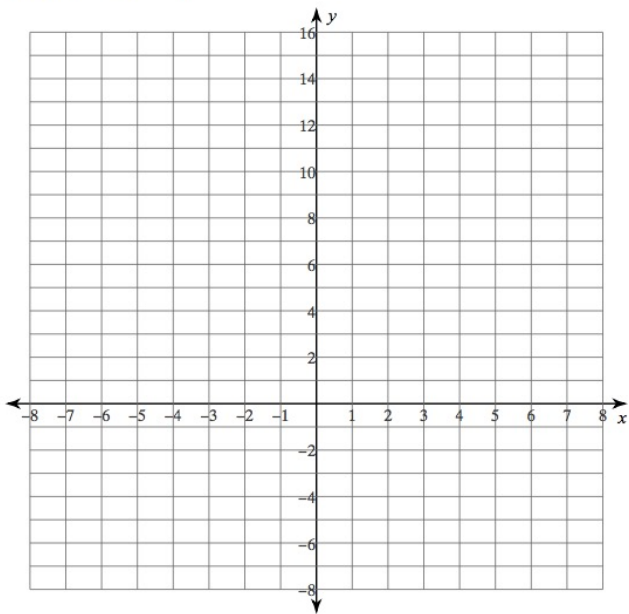
5)  $f(x) = x^2 - 4$



- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

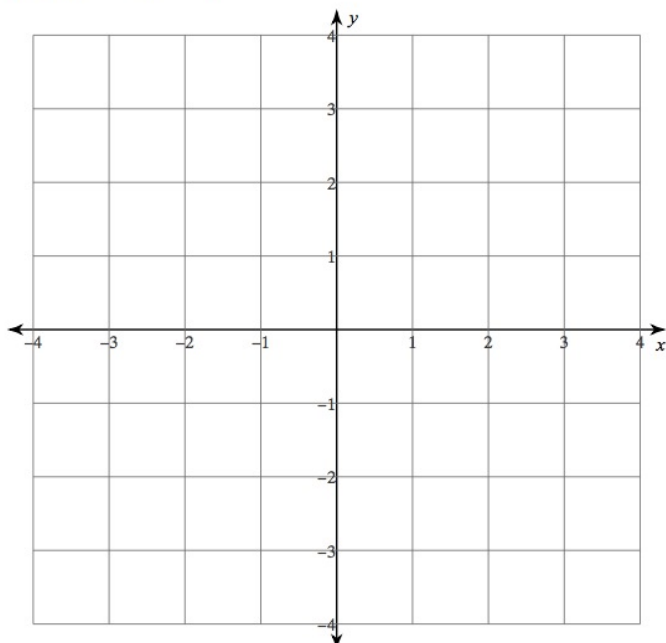
*Compare the graphs of #5 and #6. How do small changes in the function affect the graph?*

6)  $f(x) = (x - 4)^2$



- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

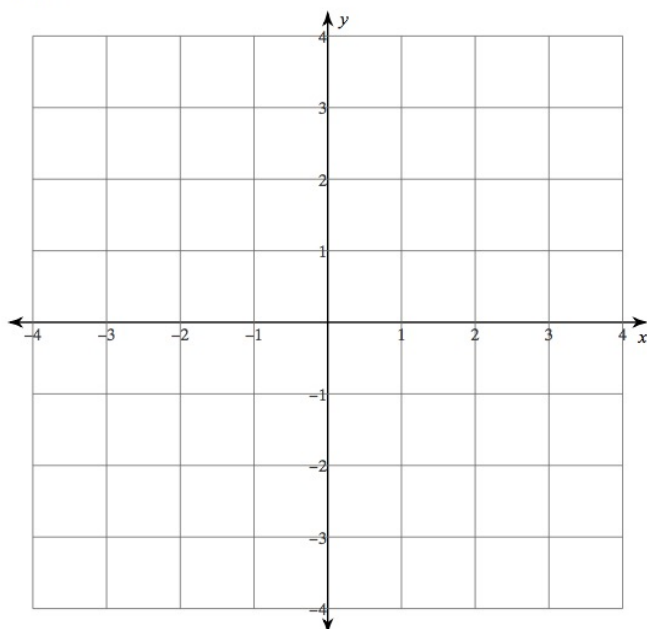
7)  $f(x) = -(x + 1)^2$



- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?

*Compare the graphs of #7 and #8. How do small changes in the function affect the graph?*

8)  $f(x) = -x^2 + 1$



- Up or Down?
- Coordinate of the Vertex?
- Line of Symmetry?
- Y - Intercept?
- Strategic Points?