

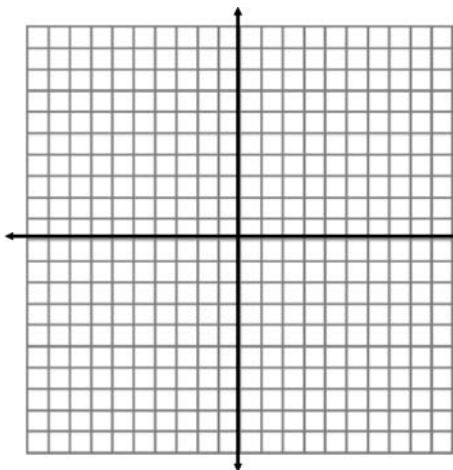
You must complete this before retaking the MC again. Remember it is all about LEARNING so take your time and learn how to do these skills. If you need help please ask!

NAME: _____

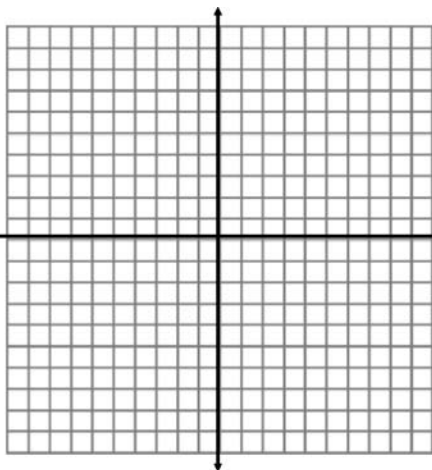
Corrective Assignment 5.1 #1

Directions: Graph. Label the vertex and axis of symmetry. Make sure you include as many points as possible on the graph (at least 3)

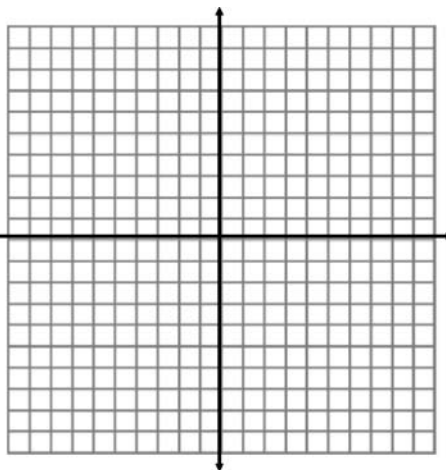
1) $f(x) = (x + 5)^2$



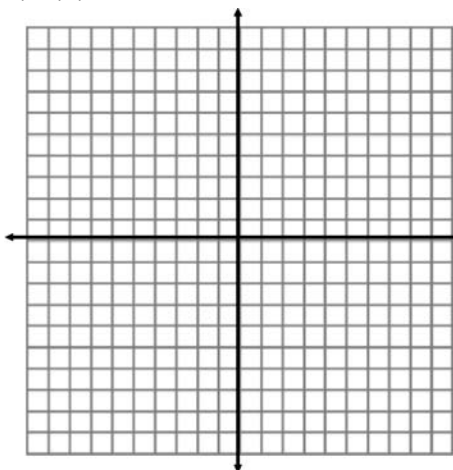
2) $f(x) = -(x + 1)^2 - 1$



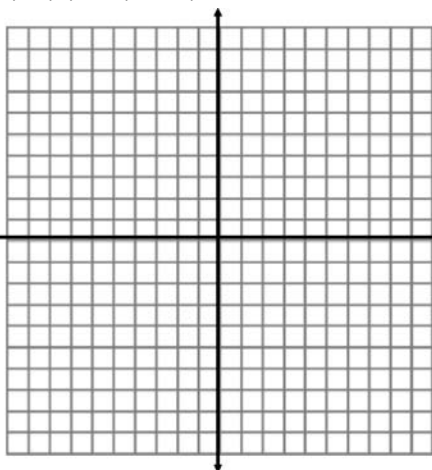
3) $f(x) = 2(x - 6)^2 - 9$



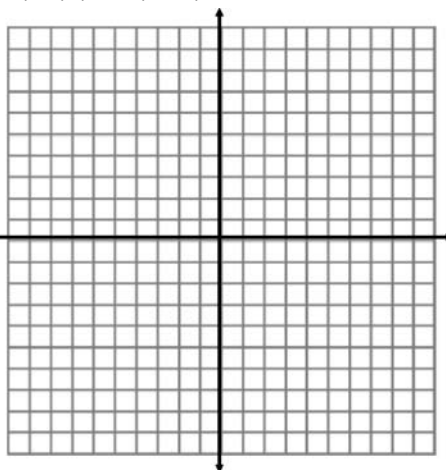
4) $f(x) = -2x^2 + 10$



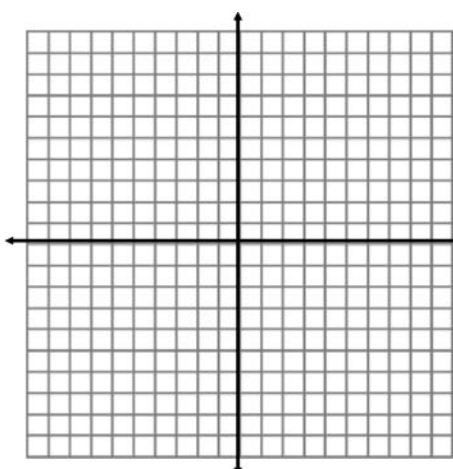
5) $f(x) = -(x + 3)^2 + 4$



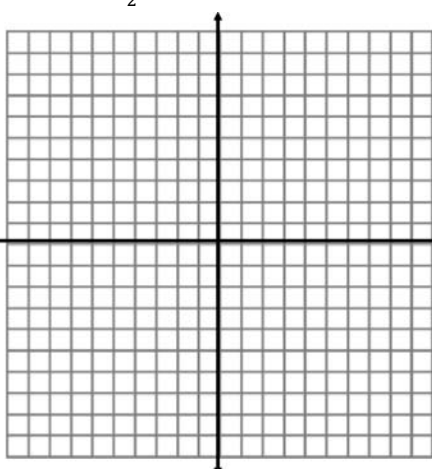
6) $f(x) = 2(x + 1)^2 - 7$



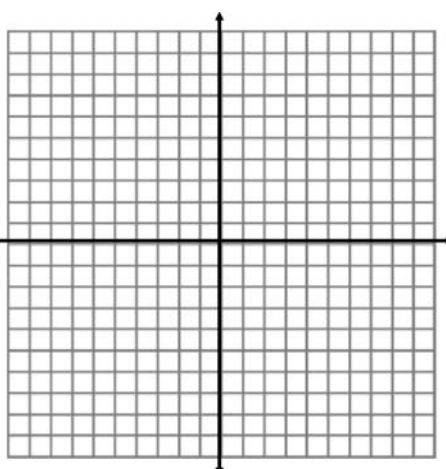
7) $f(x) = -(x - 7)^2 + 2$



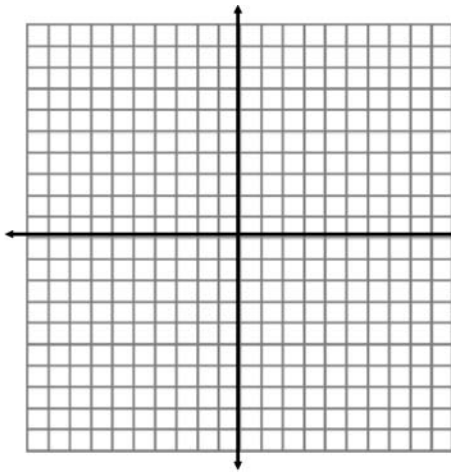
8) $f(x) = -\frac{1}{2}(x - 5)^2 + 4$



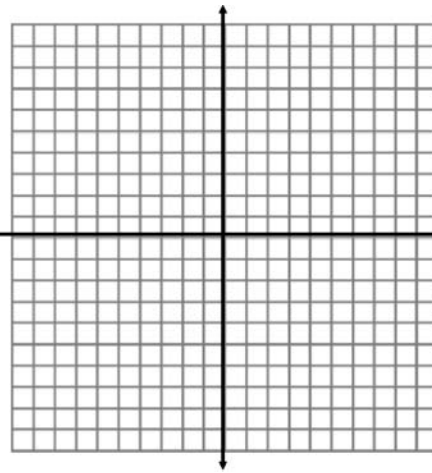
9) $f(x) = 3(x + 1)^2 - 10$



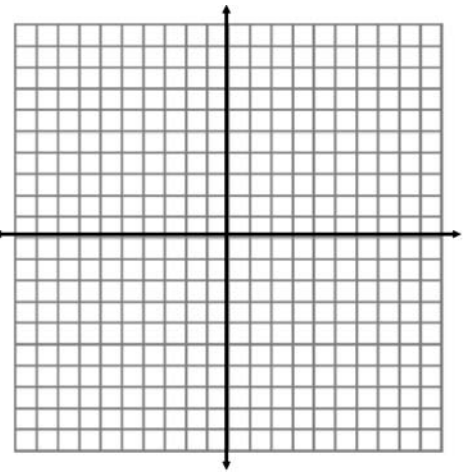
10) $f(x) = (x - 3)^2 + 1$



11) $f(x) = \frac{1}{2}(x - 3)^2 - 4$



12) $f(x) = -2(x + 6)^2 + 9$



Directions: Tell whether the function has a minimum value or a maximum value. Find the minimum or maximum value.

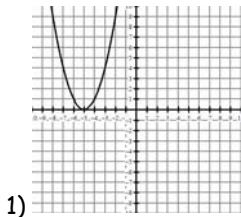
13) $y = -0.3(x - 0.5)^2 - 1.25$

14) $y = 105(x - 195)^2 + 304$

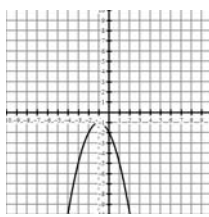
15) $y = -18.7(x + 14.2)^2 - 32.1$

ANSWERS TO CORRECTIVE ASSIGNMENT:

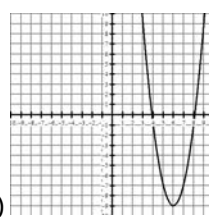
Make sure you check all your answers and make sure you KNOW how to do all of them. You could simply copy answers but that's not the point. The point is that you have to learn how to do this so please make sure that for any you don't understand you get help BEFORE taking the Mastery Check again.



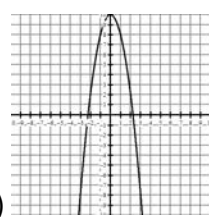
Vertex: (-5, 0)
AofSym: $x = -5$



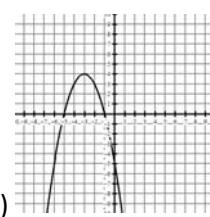
Vertex: (-1, -1)
AofSym: $x = -1$



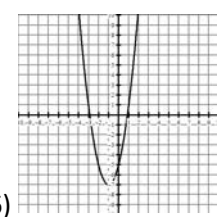
Vertex: (6, -9)
AofSym: $x = 6$



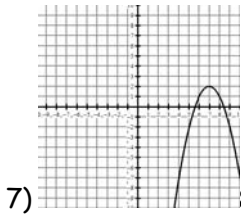
Vertex: (0, 10)
AofSym: $x = 0$



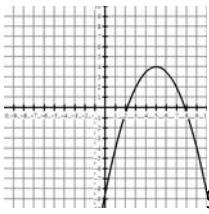
Vertex (-3, 4)
AofSym: $x = -3$



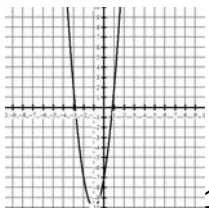
Vertex (-1, -7)
AofSym: $x = -1$



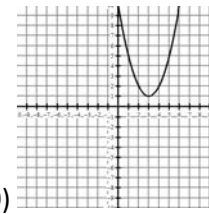
Vertex: (7, 2)
AofSym: $x = 7$



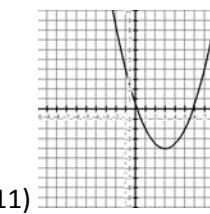
Vertex: (5, 4)
AofSym: $x = 5$



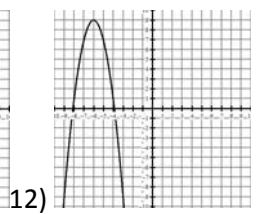
Vertex: (-1, -10)
AofSym: $x = -1$



Vertex: (3, 1)
AofSym: $x = 3$



Vertex (3, -4)
AofSym: $x = 3$



Vertex (-6, 9)
AofSym: $x = -6$

13) maximum value of -1.25

14) minimum value of 304

15) maximum value of -32.1