Core Algebra 2
Worksheet 2.2B

Find the vertex and axis of symmetry.

1. $f(x) = 3(x+1)^2 - 5$

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

3. $f(x) = -\frac{1}{4}(x-4)^2 + 7$

4. $f(x) = -5(x+7)^2 - 7$

Find the vertex, axis of symmetry, and the minimum or maximum value.

5. $f(x) = 3x^2 - 6x + 7$

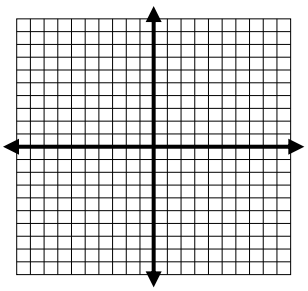
6. $f(x) = x^2 + 8x + 2$

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

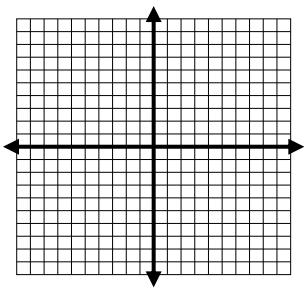
8. $f(x) = x^2 - 6x + 11$

Graph. Find the *x*-intercepts, vertex, axis of symmetry, and the minimum of maximum value.

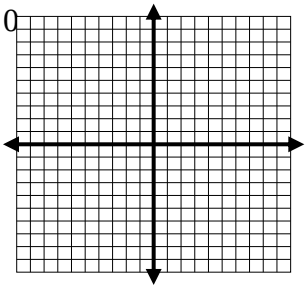
9. $f(x) = (x+7)(x-1)$



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



11. $f(x) = -(x-5)(x+1)$



12. $f(x) = 3(x+2)(x+8)$