

Topic 6.1
Solving Quadratic Equations by Graphing
Homework

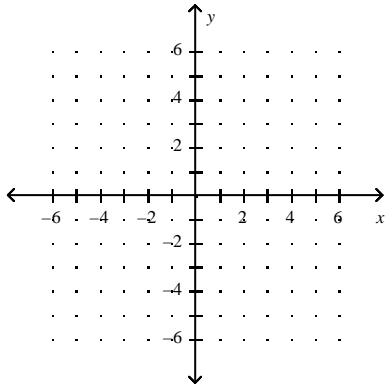
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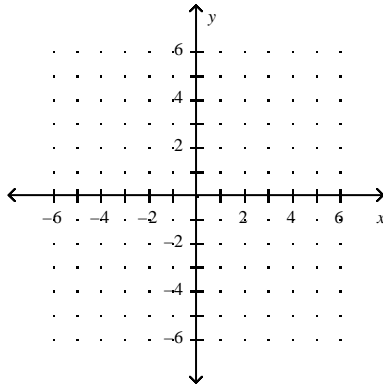
Complete the following for each problem:

- a) Graph each function
- b) Name the axis of symmetry
- c) Name the vertex
- d) Identify the solutions of the equation

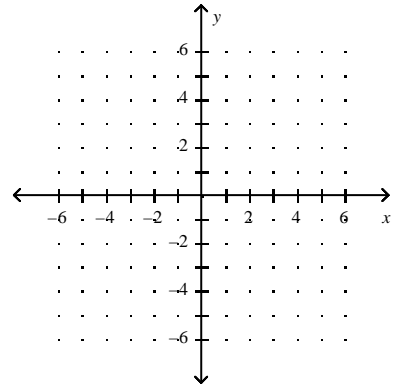
1. $f(x) = x^2 + 2x - 3$



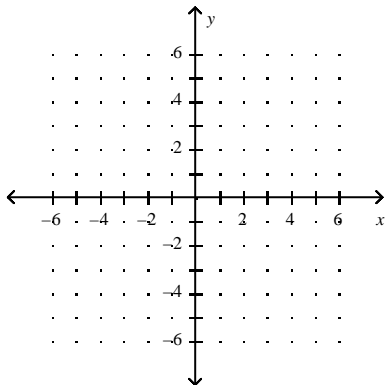
2. $f(x) = 2x^2 - 4x$



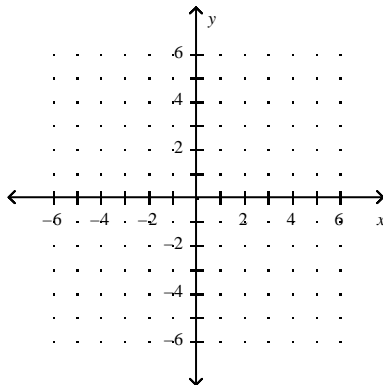
3. $f(x) = x^2 + 6x + 9$



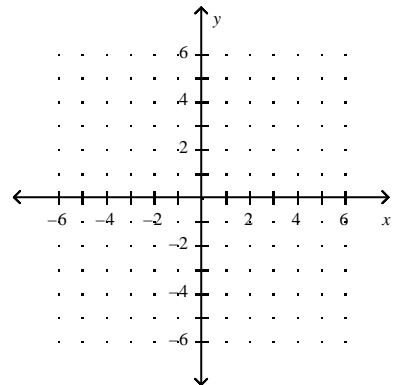
4. $f(x) = x^2 - 5x + 6$



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



6. $f(x) = x^2 + 7x + 10$

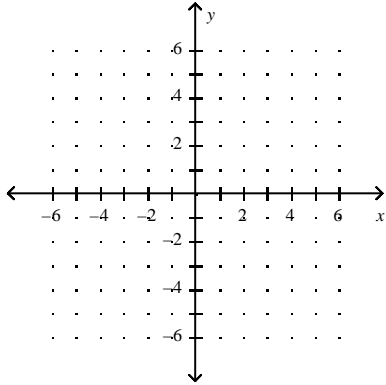


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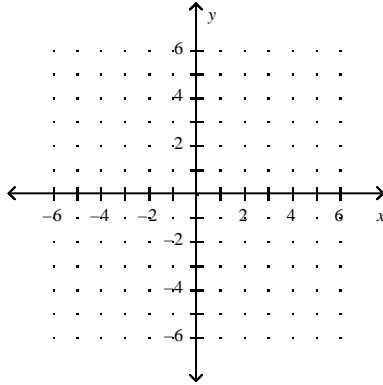
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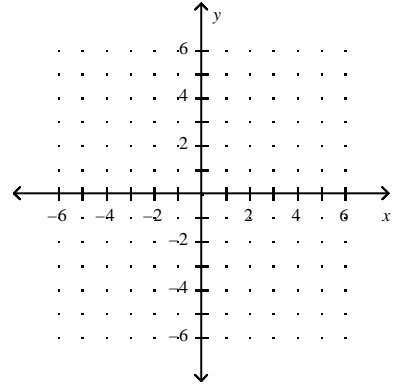
7. $f(x) = x^2 + 2x + 3$



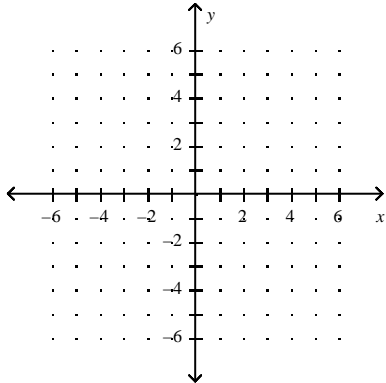
8. $f(x) = x^2 - 4x + 5$



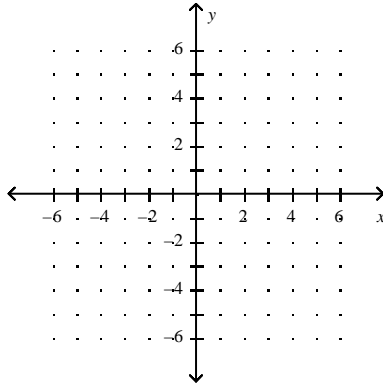
9. $f(x) = x^2 - x - 6$



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



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



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

