

Name: _____

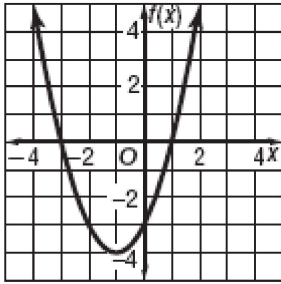
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Final Test Review

Multiple Choice

Identify the choice that best completes the statement or answers the question.

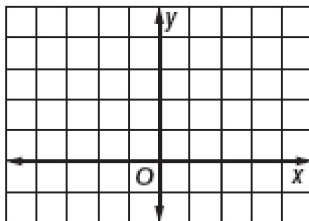
- _____ 1. Which function is graphed?



- | | |
|--------------------------|-------------------------|
| a. $f(x) = x^2 - 2x - 3$ | c. $f(x) = x^2 + x - 3$ |
| b. $f(x) = x^2 + 2x - 3$ | d. $f(x) = (x - 3)^2$ |

Short Answer

2. Solve $x^2 - 4x + 3 = 0$ by graphing.



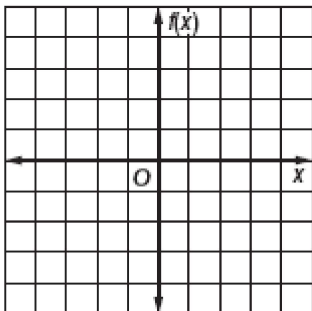
Solve each equation by factoring.

3. $x^2 - 7x = 18$
4. $4x^2 = x$

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

5. Find the y -intercept, the equation of the axis of symmetry, and the x -coordinate of the vertex.

6. Graph the function, labeling the y -intercept, vertex, and axis of symmetry.



Solve each equation by factoring.

7. $3x^2 = 10 - 13x$
8. Solve $x^2 - 4x = 1$ by using the Quadratic Formula. Find exact solutions.
9. Solve $3x^2 - x = 4$ by factoring.

Solve each equation by completing the square.

10. $x^2 - 8x + 14 = 0$
11. $3x^2 + x - 2 = 0$
12. Find the exact solutions to $2x^2 = 9x - 5$ by using the Quadratic Formula.

Solve each equation by completing the square.

13. $2x^2 - \frac{5}{2}x + 2 = 0$
14. $x^2 + 2.5x - 3 = 0.5$
15. Find the exact solutions to $\frac{1}{4}x^2 - 3x + 1 = 0$ by using the Quadratic Formula.