

9-2 Additional Practice

Solving Quadratic Equations By Factoring

Solve each equation.

1. (x-5)(x+7) = 0 **2.** (2x-7)(5x+3) = 0 **3.** x(x+4)(5-2x) = 0

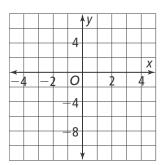
Solve each equation by factoring.

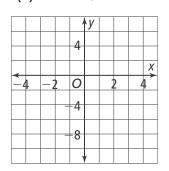
4. $x^2 - 4x - 21 = 0$ **5.** $x^2 + 100 = 20x$ **6.** $6x^2 = x + 15$

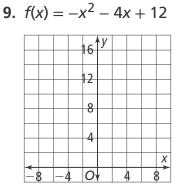
Use factoring to graph the following quadratic functions.

7. $f(x) = x^2 - 2x - 8$

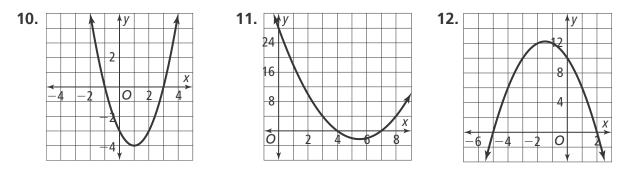
8. $f(x) = x^2 - 9$







Write the factored form for each quadratic function.



13. What feature of a quadratic function is revealed when it is in its factored form?

14. The area of the rubber coating for a flat roof is 96 ft². The rectangular frame the carpenter built for the flat roof has a length that is 4 feet greater than the width. What are the dimensions of the frame?

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