ALGEBRA 2 · CLASSWORK

Solve Quadratic Equations by Factoring

SCORE / 25

01 Part A · Practice

Write the equation as $ax^2 + bx + c = 0$, factor, and use the Zero-Product Property: if $AB = 0$, then $A = 0$ or $B = 0$.

EXAMPLE

Solve $x^2 + 2x = 15$**.**

1. $x^2 + 2x - 15 = 0$.
2. $(x + 5)(x - 3) = 0$.
3. $x = -5$ or $x = 3$.

1 ●○○ Solve by factoring: $x^2 - 6x - 16 = 0$.

2 ●○○ Solve by factoring: $12x^2 - 43x + 35 = 0$.

3 ●○○ Solve: $x^2 + x - 80 = -8$.

4 ●○○ Solve: $x^2 + 11x + 27 = -3$.

5 ●○○ Solve by factoring: $x^2 - 8x = 0$.

6 ●○○ Solve by factoring: $20x^2 - 7x - 3 = 0$.

7 ●○○ Solve: $6x^2 = -5x$.

8 ●○○ Solve by factoring: $25x^2 - 25x + 6 = 0$.

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Preview - the full worksheet and its answer key are at primeworksheet.com