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Solving Quadratic Equations by Completing the Square

Practice Worksheet A

1 Practice Problems

Solve each equation by completing the square.

1) $x^2 + 14x - 45 = 0$

5) $x^2 - 8x + 4 = 0$

2) $x^2 - 10x + 21 = 0$

6) $x^2 - 6x = 7$

3) $x^2 + 4x - 5 = 0$

7) $x^2 - 20x + 100 = 25$

4) $x^2 - 6x - 7 = 0$

8) $x^2 - 26x + 169 = 100$

Solving Quadratic Equations by Completing the Square

Practice Worksheet A

1 Practice Problems

Solve each equation by completing the square.

1) $x^2 - 6x - 7 = 0$

$\{-2, 7\}$

5) $x^2 - 26x + 169 = 100$

$\{3, 23\}$

2) $x^2 - 10x + 21 = 0$

$\{3, 7\}$

6) $x^2 - 20x + 100 = 25$

$\{5, 15\}$

3) $x^2 + 4x - 5 = 0$

$\{-5, 1\}$

7) $x^2 - 8x + 4 = 0$

$x = 2(2 \pm \sqrt{3})$

4) $x^2 - 6x - 7 = 0$

$\{-1, 7\}$

8) $x^2 + 14x - 45 = 0$

$x = -7 \pm \sqrt{94}$