

Practice Quiz 6.4

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Solve each equation by completing the square.

1) $n^2 - 6n - 44 = 0$

2) $x^2 + 2x - 6 = 0$

3) $k^2 + 12k - 64 = 0$

4) $a^2 + 2a - 3 = 0$

5) $x^2 + 2x - 35 = 0$

6) $x^2 + 3x - 12 = 0$

$$7) b^2 - 7b - 3 = 0$$

$$8) n^2 - 7n + 7 = 0$$

$$9) p^2 - p - 6 = 0$$

$$10) 2r^2 - 12r + 16 = 0$$

$$11) 5x^2 + 10x - 45 = 0$$

$$12) 5n^2 + 10n - 23 = 0$$

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Solve each equation by completing the square.

1) $n^2 - 6n - 44 = 0$

$$\{3 + \sqrt{53}, 3 - \sqrt{53}\}$$

2) $x^2 + 2x - 6 = 0$

$$\{-1 + \sqrt{7}, -1 - \sqrt{7}\}$$

3) $k^2 + 12k - 64 = 0$

$$\{4, -16\}$$

4) $a^2 + 2a - 3 = 0$

$$\{1, -3\}$$

5) $x^2 + 2x - 35 = 0$

$$\{5, -7\}$$

6) $x^2 + 3x - 12 = 0$

$$\left\{ \frac{-3 + \sqrt{57}}{2}, \frac{-3 - \sqrt{57}}{2} \right\}$$

$$7) b^2 - 7b - 3 = 0$$

$$\left\{ \frac{7 + \sqrt{61}}{2}, \frac{7 - \sqrt{61}}{2} \right\}$$

$$8) n^2 - 7n + 7 = 0$$

$$\left\{ \frac{7 + \sqrt{21}}{2}, \frac{7 - \sqrt{21}}{2} \right\}$$

$$9) p^2 - p - 6 = 0$$

$$\{3, -2\}$$

$$10) 2r^2 - 12r + 16 = 0$$

$$\{4, 2\}$$

$$11) 5x^2 + 10x - 45 = 0$$

$$\{-1 + \sqrt{10}, -1 - \sqrt{10}\}$$

$$12) 5n^2 + 10n - 23 = 0$$

$$\left\{ \frac{-5 + 2\sqrt{35}}{5}, \frac{-5 - 2\sqrt{35}}{5} \right\}$$