

Practice for Q3OBQ7 - Reference Chapter 10-3

Date _____ Period _____

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Solve each equation by completing the square.

1) $x^2 + 10x - 7 = 4$

2) $x^2 - 4x - 16 = -5$

3) $n^2 + 4n - 23 = -4$

4) $k^2 - 2k - 13 = -5$

5) $2x^2 - 8x - 5 = 5$

6) $2x^2 + 4x - 16 = -4$

7) $4n^2 + 8n - 9 = 2$

8) $3n^2 - 6n - 8 = 4$

9) $2p^2 - p - 3 = 3$

10) $2x^2 + 6x - 11 = -3$

Answers to Practice for Q3OBQ7 - Reference Chapter 10-3 (ID: 11)

- 1) $\{1, -11\}$ 2) $\{2 + \sqrt{15}, 2 - \sqrt{15}\}$ 3) $\{-2 + \sqrt{23}, -2 - \sqrt{23}\}$
4) $\{4, -2\}$ 5) $\{5, -1\}$ 6) $\{-1 + \sqrt{7}, -1 - \sqrt{7}\}$
7) $\left\{\frac{-2 + \sqrt{15}}{2}, \frac{-2 - \sqrt{15}}{2}\right\}$ 8) $\{1 + \sqrt{5}, 1 - \sqrt{5}\}$ 9) $\left\{2, -1\frac{1}{2}\right\}$
10) $\{1, -4\}$