

Pg. 833 Q 1-12

Lesson 8-3

Quadratic Equations: $x^2 + bx + c = 0$ (pp. 485-491)

Factor each trinomial.

1. $x^2 - 9x + 14$

2. $a^2 - 9a - 36$

3. $x^2 + 2x - 15$

4. $n^2 - 8n + 15$

5. $b^2 + 22b + 21$

6. $c^2 + 2c - 3$

7. $x^2 - 5x - 24$

8. $n^2 - 8n + 7$

9. $m^2 - 10m - 39$

10. $z^2 + 15z + 36$

11. $s^2 - 13st - 30t^2$

12. $y^2 + 2y - 35$

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Lesson 8-6

Quadratic Equations: Perfect Squares (pp. 505-512)

Solve each equation. Check your solutions.

15. $x^2 + 22x + 121 = 0$

16. $343d^2 = 7$

17. $(a - 7)^2 = 5$

18. $c^2 + 10c + 36 = 11$

19. $16s^2 + 81 = 72s$

20. $9p^2 - 42p + 20 = -29$

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Lesson 9-5

Solving Quadratic Equations by Using the Quadratic Formula (pp. 558-565)

Solve each equation by using the Quadratic Formula. ~~Round to the nearest tenth if necessary.~~ Answer as a simplified radical.

1. $x^2 - 8x - 4 = 0$

2. $x^2 + 7x - 8 = 0$

3. $x^2 - 5x + 6 = 0$

4. $y^2 - 7y - 8 = 0$

5. $m^2 - 2m = 35$

6. $4n^2 - 20n = 0$

7. $m^2 + 4m + 2 = 0$

8. $2t^2 - t - 15 = 0$

9. $5t^2 = 125$

10. $t^2 + 16 = 0$

11. $-4x^2 + 8x = -3$

12. $3k^2 + 2 = -8k$

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