

LESSON
9-6**Practice B****Solving Quadratic Equations by Factoring**

Use the Zero Product Property to solve each equation. Check your answers.

1. $(x - 1)(x - 5) = 0$

2. $(x - 2)(x - 9) = 0$

3. $(x - 2)(x + 4) = 0$

4. $(2x + 1)(x - 6) = 0$

Solve each quadratic equation by factoring. Check your answers.

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

6. $x^2 + 4x + 3 = 0$

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

8. $x^2 + 11x + 24 = 0$

9. $x^2 - 12x + 11 = 0$

10. $x^2 + 18x + 65 = 0$

11. $x^2 - 4x - 12 = 0$

12. $x^2 + 11x + 10 = 0$

13. $x^2 + 12x + 35 = 0$

14. $2x^2 - 3x - 5 = 0$

15. $3x^2 - 5x - 2 = 0$

16. $x^2 = 3x + 40$

Practice B

Solving Quadratic Equations by Using Square Roots

Solve using square roots. Check your answer.

1. $x^2 = 81$

$x = \pm\sqrt{81}$

$x = \pm$ _____

The solutions are _____ and _____.

2. $x^2 = 100$

$x = \pm\sqrt{\quad}$

$x = \pm$ _____

The solutions are _____ and _____.

3. $x^2 = 225$

4. $441 = x^2$

5. $x^2 = -400$

6. $3x^2 = 108$

7. $x^2 + 7 = 71$

8. $49x^2 - 64 = 0$

9. $-2x^2 = -162$

10. $0 = 81x^2 - 121$

11. $100x^2 = 121$

Solve. Round to the nearest hundredth.

12. $8x^2 = 56$

13. $5 - x^2 = 20$

14. $x^2 + 35 = 105$

15. The height of a skydiver jumping out of an airplane is given by $h = -16t^2 + 3200$. How long will it take the skydiver to reach the ground? Round to the nearest tenth of a second. _____