

LT 3.5 Skills Practice

Solving Quadratic Equations by Factoring

Write a quadratic equation in standard form with the given root(s).

1. 1, 4

2. 6, -9

3. -2, -5

4. 0, 7

5. $-\frac{1}{3}, -3$

6. $-\frac{1}{2}, \frac{3}{4}$

Factor each quadratic.

7. $m^2 + 7m - 18$

8. $20x^2 + 15x$

9. $81z^2 - 9z$

10. $4p^2 + 4p - 24$

11. $3y^2 + 21y + 36$

Solve each equation by factoring.

12. $x^2 - 3x + 2 = 0$

13. $x^2 + 2x - 3 = 0$

14. $x^2 - 3x - 10 = 0$

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

16. $x^2 - 9x = 0$