

## LT 3.5 Honors Skills Practice

### *Solving Quadratic Equations by Factoring*

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

1. 7, 2

2. 0, 3

3. -5, 8

4. -7, -8

5. 3, -4

6.  $1, \frac{1}{2}$

7.  $0, -\frac{7}{2}$

Factor each polynomial.

7.  $r^3 + 3r^2 - 54r$

Solve each equation by factoring.

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

9.  $x^2 - 16x + 64 = 0$

10.  $x^2 - 6x + 8 = 0$

11.  $x^2 + 3x + 2 = 0$

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

13.  $x^2 = 2x + 99$

14.  $x^2 + 12x = -36$

15.  $5x^2 - 35x + 60 = 0$

16.  $2x^2 - 8x - 90 = 0$