

### 4.3 Solve Quadratic by Factoring $a > 1$

#### Day 2 Exercises

Write a quadratic equation in factored form and standard form with the given root(s)/solutions.

1. 3, -4

2. -8, -2

3. 1, 9

Example

4. -5

5. 10, 7

6. -2, 15

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

8.  $2, \frac{2}{3}$

9.  $-7, \frac{3}{4}$

10.  $3, \frac{2}{5}$

11.  $-\frac{4}{9}, -1$

12.  $9, \frac{1}{6}$

13.  $\frac{2}{3}, -\frac{2}{3}$

14.  $\frac{5}{4}, -\frac{1}{2}$

15.  $\frac{3}{7}, \frac{1}{5}$

## Exercises

Solve each equation by factoring.

1.  $6x^2 - 2x = 0$

2.  $x^2 = 7x$

3.  $20x^2 = -25x$

4.  $6x^2 = 7x$

5.  $6x^2 - 27x = 0$

6.  $12x^2 - 8x = 0$

7.  $x^2 + x - 30 = 0$

8.  $2x^2 - x - 3 = 0$

9.  $x^2 + 14x + 33 = 0$

10.  $4x^2 + 27x - 7 = 0$

11.  $3x^2 + 29x - 10 = 0$

12.  $6x^2 - 5x - 4 = 0$

13.  $12x^2 - 8x + 1 = 0$

14.  $5x^2 + 28x - 12 = 0$

15.  $2x^2 - 250x + 5000 = 0$

16.  $2x^2 - 11x - 40 = 0$

17.  $2x^2 + 21x - 11 = 0$

18.  $3x^2 + 2x - 21 = 0$

19.  $8x^2 - 14x + 3 = 0$

20.  $6x^2 + 11x - 2 = 0$