

4-3 Study Guide and Intervention

Solving Quadratic Equations by Factoring

Factored Form To write a quadratic equation with roots p and q , let $(x - p)(x - q) = 0$. Then multiply using FOIL.

Example: Write a quadratic equation in standard form with the given roots.

a. 3, -5

$$(x - p)(x - q) = 0 \quad \text{Write the pattern.}$$

$$(x - 3)(x - (-5)) = 0 \quad \text{Replace } p \text{ with 3, } q \text{ with } -5.$$

$$(x - 3)(x + 5) = 0 \quad \text{Simplify.}$$

$$x^2 + 2x - 15 = 0 \quad \text{Use FOIL.}$$

The equation $x^2 + 2x - 15 = 0$ has roots 3 and -5.

b. $-\frac{7}{8}$, $-\frac{1}{3}$

$$(x - p)(x - q) = 0$$

$$\left[x - \left(-\frac{7}{8}\right)\right]\left(x - \frac{1}{3}\right) = 0$$

$$\left(x + \frac{7}{8}\right)\left(x - \frac{1}{3}\right) = 0$$

$$\frac{(8x + 7)}{8} \cdot \frac{(3x - 1)}{3} = 0$$

$$\frac{24 - (8x + 7)(3x - 1)}{24} = 24 \cdot 0$$

$$24x^2 + 13x - 7 = 0$$

The equation $24x^2 + 13x - 7 = 0$ has roots $-\frac{7}{8}$ and $\frac{1}{3}$.

Exercises

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

1. 3, -4

2. -8, -2

3. 1, 9

4. -5

5. 10, 7

6. -2, 15

7. $-\frac{1}{2}$, 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. $\frac{3}{2}$, $\frac{1}{5}$

16. $-\frac{7}{8}$, $\frac{7}{2}$

17. $\frac{1}{2}$, $\frac{3}{4}$

18. $\frac{1}{8}$, $\frac{1}{6}$

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