

Algebra RH

Unit 14: Solving Quadratic Equations Practice

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**Do Now:**

*Are these polynomials perfect square trinomials?*

A.  $x^2 - 6x + 12$

B.  $x^2 - \frac{8}{7}x + \frac{16}{49}$

1. What are the solutions of $(x - 11)(x + 15) = 0$ ?	2. Find the solutions of $x^2 - 13x = 0$ .
3. Find the solutions of $\frac{x-4}{x-5} = \frac{x}{3}$ .	4. Solve for x: $9x^2 = 27$ .
5. Solve for x: $36x^2 = 841$ .	6. Solve for x: $7x^2 = 42x - 35$ .

7. Solve by factoring:  $x^2 + x = 12$ .

8. Solve by completing the square:

$$x^2 - 8x + 13 = 0$$

**Quadratic formula**

9. Find the values of a, b, and c for  $4x^2 + 7 = 11x$ .

10. Use the quadratic formula to solve:

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