

# 6 3 practice binomial radical expressions answers

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### How to Solve Binomial Radical Expressions\*\*

A binomial radical expression is a radical expression that contains two terms. To solve binomial radical expressions, follow these steps:

- **Step 1: Simplify the radical** by extracting any perfect squares or cubes.
- **Step 2: Find the square root of the remaining expression.** If there are no perfect squares, use the pythagorean theorem to find the square root.
- **Step 3: Rationalize the denominator** if necessary, by multiplying the numerator and denominator by the conjugate of the denominator.

### How to Square a Binomial with a Radical

To square a binomial with a radical, use these three steps:

- **Step 1: Square the first term.**
- **Step 2: Square the second term.**
- **Step 3: Multiply the two terms** by twice the product of the first and second terms.

### How to Solve a Binomial Step by Step

To solve a binomial, follow these steps:

- **Step 1: Factor the binomial.**

- **Step 2: Solve each factor for x.**
- **Step 3: Check your solutions** by plugging them back into the original equation.

### Additional Tips

- To multiply a radical by a binomial, distribute the radical over each term in the binomial.
- To simplify a radical expression, factor the expression under the radical and then extract any perfect squares or cubes.
- To solve radical equations, isolate the radical on one side of the equation and then square both sides.
- To add or subtract radical expressions, the radicals must have the same index and radicand. If they do not, rationalize the denominator of one or both radicals.

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