

Math Virtual Learning

Algebra 2A

Multiplying Binomials

April 9, 2020



Lesson: April 9, 2020

Objective/Learning Target:

Students will multiply binomials with both the FOIL and Box method.

Warm up:

Evaluate the expressions.

1. $(-2x^4 + 5x^3 - 18x) - (6x^3 - 15x^2 + 7x + 4)$
2. $3(7x - 12)$
3. $(9x + 2)(-5x + 6)$ (multiply using the FOIL method)

Answer Key:

Warm up:

1. $-2x^4 - 1x^3 + 15x^2 - 25x - 4$

2. $21x - 36$

3. $-45x^2 + 44x + 12$

Lesson

Watch the video below on how to multiply binomials using the box method.

[Multiplying Binomials Easy Shortcut-Box Method!](#)

Things to remember:

- a. Keep negatives and subtraction signs with their terms when using the box method.
- b. It does not matter which side of the box the binomials are written on.
- c. When you are writing your answer, you must check for like terms that can be combined.

Practice

Multiply each set of binomials below using the box method.

1. $(x + 5)(3x - 1)$

2. $(2x - 1)(x - 3)$

3. $(x + y)(x + y)$

4. $(3x - y)(x + 2y)$

Practice

Answer Key

1. $3x^2 + 14x - 5$

2. $2x^2 - 7x + 3$

3. $x^2 + 2xy + y^2$

4. $3x^2 + 5xy - 2y^2$

Additional Practice

- Click the link for [additional practice multiplying binomials](#).
You will get feedback on your answers!
- Click the link for [additional practice multiplying binomials](#).
Then, check your answers on the second page.