

Factoring Trinomials

A. Factoring trinomials in the form $x^2 + bx + c$ (coefficient of x^2 term is 1)

1. Define terms: sum = answer in addition; Product = answer in multiplication
2. http://www.phschool.com/atschool/academy123/english/academy123_content/wl-book-demo/ph-274s.html

Copy 1. Definition of Trinomial

2. Rules in red and blue

Work the example.

3. http://www.phschool.com/atschool/academy123/english/academy123_content/wl-book-demo/ph-275s.html

Why did the teacher change positive factors of 12 to negative factors?

4. http://www.phschool.com/atschool/academy123/english/academy123_content/wl-book-demo/ph-276s.html

Work example b.

5. http://www.phschool.com/atschool/academy123/english/academy123_content/wl-book-demo/ph-277s.html

Complete the following statements:

- a. When we multiply a by b, we get _____
- b. When we multiply a by a, we get _____
- c. When we multiply b by b, we get _____
- d. ab means _____ times _____
- e. $3ab$ means 3 _____ a _____ b

Scroll down to next page.

6. Copy the following statements and fill in the blanks:

Rules:

a. If the sign of the last term in a trinomial is positive, its factors must have the **SAME** sign: they can be both _____ or both _____.

They must both have the same sign as the _____ term of the trinomial.

b. If the sign of the last term in a trinomial is negative, its factors must have **DIFFERENT** signs: one must be _____, and one must be _____.

Factoring $ax^2 + bx + c$ trinomials

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