

Algebra II

4-6

Backwards FOIL

Nov 5-8:43 AM

Instruction Definitions for Common Algebraic Instructions -

Solve - Get the variable on a side by itself.

Simplify - Put together like terms. When done, all groups will be added.

Factor (v) - Break apart so all groups are multiplied.

Evaluate - Get a numerical answer.

Oct 30-8:32 AM

Simplify.

$$\begin{aligned} *1) (x+5)(x-3) \\ x^2 - \underline{3x} + \underline{5x} - 15 \\ x^2 + 2x - 15 \end{aligned}$$

Factor.

$$\begin{aligned} x^2 + 2x - 15 \\ \downarrow \\ (x+5)(x-3) \end{aligned}$$

Nov 5-8:44 AM

Rules of Signs -

$$\begin{aligned} \underline{ax^2} + bx + c &= (\underline{+}) (\underline{+}) \quad \left. \begin{array}{l} \text{IF 2nd sign is +,} \\ \text{then two of the 1st} \end{array} \right\} \\ \underline{ax^2} - bx + c &= (\underline{-}) (\underline{-}) \\ ax^2 + bx - c &= (+) (-) \quad \left. \begin{array}{l} \text{IF 2nd sign is - ,} \\ \text{then one of each} \end{array} \right\} \\ ax^2 - bx - c &= (+) (-) \end{aligned}$$

Nov 5-8:45 AM

Factor.

For checking

$$1) \overline{1 \mid} x^2 - 9x + 8$$

$\overline{1 \mid} \quad \overline{1 \mid 8}$
 $\quad \quad \quad \overline{2 \mid 4}$

$$(x - 1)(x - 8)$$
$$(x - 1)(x - 8)$$

Nov 5-8:45 AM

$$21) u^2 - 8uv - 12v^2$$

$\overline{1 \mid 12 \quad 6 \mid 2 \quad 3 \mid 4}$

$$(u + v)(u - v)$$

Prime

Nov 5-8:46 AM

$\sqrt{6, 2, 3}$ $\sqrt{2, 5, 10}$

31) $6x^2 + 7x - 10$

$(2x + 2)(3x - 5)$ ← Wait work
 only 1 can be the same

$(6x + 2)(1x - 5)$ ← Wait work
 goes in

$(6x + 5)(1x - 2)$ If you are off by a
 negative, switch signs

$\begin{matrix} 5x \\ -12x \\ \hline -7x \end{matrix}$ → $(6x - 5)(x + 2)$

Nov 5-8:46 AM

Pg 191

2-34even

Nov 5-8:47 AM