Lesson 1.2.2: Multiplying Polynomials



By the end of this lesson, I will be able to answer the following questions...

1. How can I use the distributive property to multiply polynomials?

2. What is F.O.I.L.?

3. How can I apply polynomial operations to problems involving geometry (area)?

• F.O.I.L. technique





Prerequisite Skills with Practice

Simply the following using properties of exponents.

$$x^2 \cdot x^3$$
 $2x \cdot 6x^8$ $x^3 \cdot y^7$ $4x^3(-3y^7)$

Explain the difference between difference in technique you'd use to simplify the following

$$2x^3 + 5x^3$$
 vs. $(2x^3)(5x^3)$

Example one Find the product of:

(2x-1)(x+18)

Example two Find the product of:

$$(x^3 + 9x)(-x^2 + 11)$$

Example three Find the product of:

 $(3x+4)(x^2+6x+10)$



THE END



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