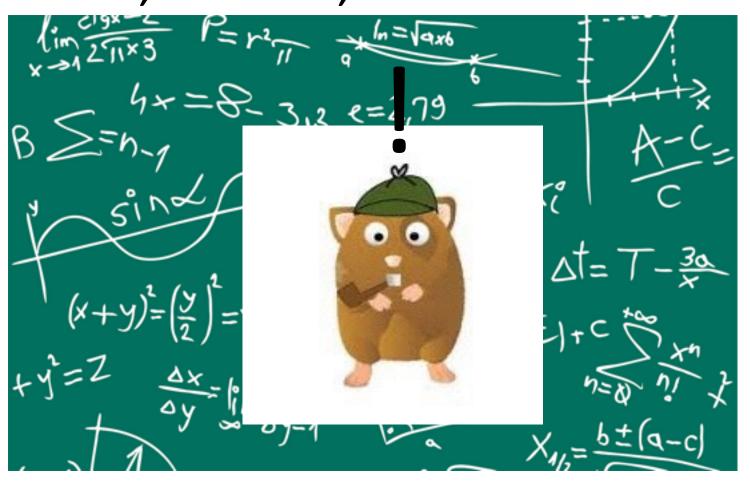
Title of Lesson: 3.1.1: Identifying Terms, Factors, and Coefficients



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

1. How do I categorize parts of an expression?

2. How do I write an expression based on a description?

3. How do I relate these tools to geometric problems?

Vocabulary

1.Monomial: One Term
$$3x$$
, -12 x^2 , 1000

Binomial: Two Term
$$\longrightarrow$$
 $2x-4$, x^2+1

Trinomial: Three Terms
$$\longrightarrow 2x^3 + 4x - 4$$

2. Constant — 4, -300,
$$\frac{1}{3}$$

Linear
$$3x+1$$
, $4x$

Quadratic
$$x^2 + x$$
, $3x^2 - x + 1$

3. Coefficient

$$24x^2$$

$$-100x^3$$

Prerequisite Skills with Practice

Collect like terms:
$$34-x^2-50+x-7x$$
 $10x^3-3x^2-4x^3+x^2$

Standard form

Distributive property: $2x(x^2 + x - 1)$ $2x^2 - 3(2x^2 + 1)$

Identify each term, coefficient, and constant of

6(x-1)-x(3-2x)+12.

Classify the expression as a monomial, binomial, or

trinomial.

Determine whether it is a quadratic expression.

Translate the verbal expression ...

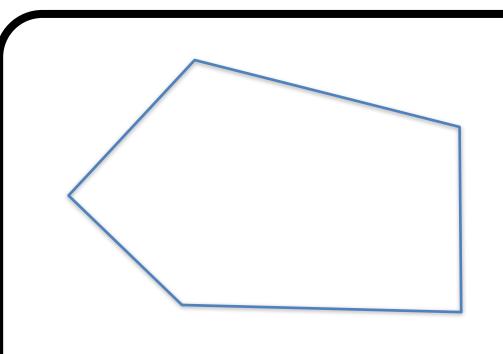
Triple the difference of 12 and the square of x, then increase the result by the sum of 3 and x

...into an algebraic expression. Identify the terms, coefficients, and constants of the given expression. Is the expression quadratic?

A fence surrounds a park in the shape of a pentagon. The side lengths of the park in feet are given by the expressions

$$(5x-3)$$
, $(3x+1)$, $(3x+2)$, $4x$, and x^2

Find an expression for the perimeter of the park. Identify the terms, coefficients, and constant in your expression. Is the expression quadratic?



THE END



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