Monomials, Binomials, Trinomials

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What is a polynomial?

To answer this question we need to first understand what a "term" is. A **term** is something that looks like,

$$4x^2, 3x, 5, -x^4$$
 etc.

There are two components to a **term**, the **coefficient** and the **variable**. The coefficient in the term $4x^2$ is 4 and the variable part is x^2 . A **polynomial** is at least one term or the sum of any number of terms. Some examples of polynomials are,

 $3x^2 + 4x + 3$ -5x + 3 $6 + x^2$

Monomials, binomials, trinomials, oh my!

A monomial is a polynomial with one term. For example,

$$3x^2, -4x, -7x^3$$

are some examples.

A binomial is a polynomial with two terms. For example,

$$4x + 2, x^2 - 6, x + 3x^2$$

are example of bionomials.

A trinomial is a polynomial with three terms. For example,

$$-2x^{2} + 3x + 4$$

 $6x - 3 + 2x^{2}$

are all trinomials.

We can add, subtact, multiply, divide and take powers of polynomials just as we can with numbers.

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Exercises

Label each polynomial as a monomial, binomial, trinomial or polynomial for greater than trinomial. () $13 \times 133 \times 1333$

(a)
$$a^{13} + a^{133} + a^{1333}$$

(b) y^{1000}
(c) $z^2 + 2$
(d) $3 - 4y$
(e) x^{100001}
(f) $y^5 + x^6 + z^6 + w^6 + a^6$
(g) $x^2 - x$
(h) x
(i) $y^{10} - 4 + 3y^2 - 3$
(j) 4

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