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. (a) $4m^2n^2 + 7m + 2 + 7$

(a)
$$4x^2y^2 + 7y - 2 + x^4$$

(b) ab
(c) $66a^2 + b^2 - ab + 15b$
(d) $x^4y^7z^2$
(e) $77x^2y^2z^2w^2$
(f) $a^2 + 2ab + b^2$
(g) $a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$
(h) 0
(i) $1 + x + x^2 + x^3 + x^4 + x^5$
(j) $2x + x^2$

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