

Functions Vocabulary



Term

A single number or variable (or product of a number and variable)

7, 7x, 8xy²

Factor

**Numbers you multiply together to
get another number**

~3 and 2 are factors of 6

~x and x are factors of x^2

Variable

A letter or symbol for which we do not know its value

x and y

Coefficient

The number in front of a variable

Coefficient = 7x, -3y, 1z

Expression

Numbers, symbols and operators
(such as + and ×) grouped
together that show the value of
something.

$$7x^2 + 2x + 5$$

Equation

A mathematical expression that
has an equal sign

$$2x + 1 = y$$

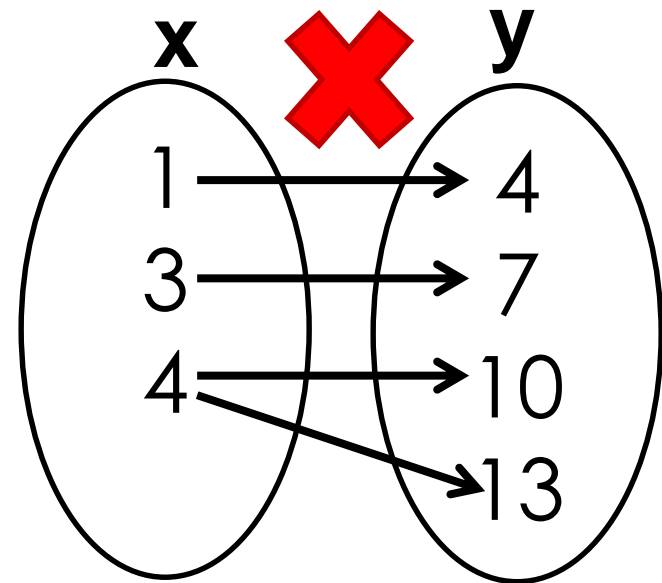
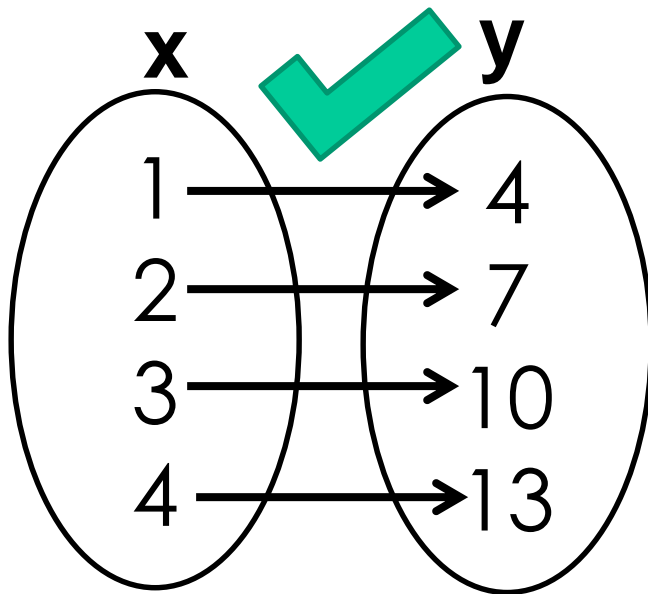
Inequality

A mathematical expression that has an inequality symbol

$$2x + 1 \leq y$$

Function

A relation where each input has only one output



Exponent

A number or symbol that is written in the upper right hand corner of another number or symbol.

$$\text{Exponent} = \begin{array}{ccc} 7x^{\underline{2}}, & -x^{\underline{3}}, & y^{\underline{-}} \\ 2 & 3 & 1 \end{array}$$

Degree

The largest exponent in an equation

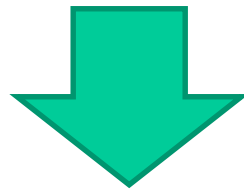
$$7x^2 + x^3 - 15x + 10$$

$$\text{Degree} = 3$$

Standard Form

Descending order according to exponents

$$7x^2 + x^3 - 15x + 10$$



$$x^3 + 7x^2 - 15x + 10$$

Leading Coefficient

Once in standard form...

The leading coefficient is the NUMBER out front (including its sign)

$$-3x^2 + 10x + 15$$

Leading Coefficient = -3

# of Terms	Name by # of Terms	Example
<i>1</i>	<i>Monomial</i>	$4x^3$
<i>2</i>	<i>Binomial</i>	$4x^3 + 3x^2$
<i>3</i>	<i>Trinomial</i>	$4x^3 + 3x^2 - 2x$
<i>4+</i>	<i>Polynomial</i>	$4x^3 + 3x^2 - 2x + 5$

Example	Degree	Name by degree
$4x^3$		<i>Monomial</i>
$4x^3 + 3x^2$		<i>Binomial</i>
$4x^3 + 3x^2 - 2x$		<i>Trinomial</i>
$4x^3 + 3x^2 - 2x + 5$	4+	<i>Polynomial</i>

Example	(Degree)Name by degree
6	(0) Constant
$2x$	(1) Linear
$3x^2 - 2x + 2$	(2) Quadratic
$4x^3 + 3x^2 - 2x + 5$	(3) Cubic