



$$A = \frac{bh}{2} \quad c^2 = a^2 + b^2$$

$$S_{\text{cylinder}} = 2\pi r^2 + 2\pi r h$$

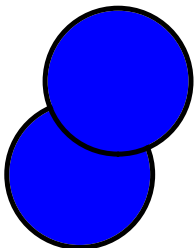
Chapter 5

Polynomials

December 5, 2019

Term -- Part of an expression or series ^[no equal sign] separated by a + or - sign, or parts of a sequence separated by commas.

$-2q + p$



Expression	Terms
$5a^3 - 2xy + 3$	$5a^3, -2xy,$ and 3
$\frac{p - 2q}{a^2 + b}$	$ p, -2q , a^2,$ and $ b$

$5a^3 + -2xy + 3$

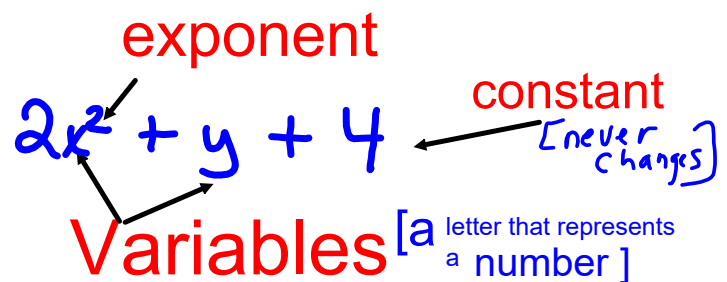
$p + -2q$

Polynomials

A polynomial is one term or the sum of terms whose variables have whole number exponents

Expression	Polynomial?	# of terms	List the terms
1. $2a + 3$	yes	2	2a, 3
2. $4a \boxed{-6}$ $-6 + 4a$	yes	2	4a, -6
3. $4a$	yes	1	4a

- constants [like 3, -20, or 1/2]
- Variables [like x , y etc]
- exponents [like the 2 in y^2] but only whole number exponents



Polynomials are combined using:

- addition [+], subtraction[-]

Term-a constant [number], variable **or** the product of a number and variable.

Examples 2, y, 2xy, $2x^2$, -3x, -2
of a Term

constant

Variable

product of a number and a variable