Algebra 1 Reviews

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Foundations of Algebra

Part 1

vocabulary:

base

Coefficient

exponent

expression

factors

order of operations

power

operations

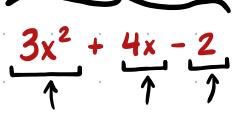
product

term

variable

verbal phrase

algebraic expression



individual terms

Terms have variables that are letters...

placeholders for K

Expressions are made of terms, variables and operations.

_exponent

t base

coefficient

3x , 4y2 , 7t-4

Factors like "3x" and "y" multiply together to form products.

factors: 3x, y

product: 3xy

Terms called powers include bases and exponents.

Expressions can be written as verbal phrases sentences.

Expressions can also be evaluated for specific values of a variable.

$$3x^{2} + 4y - 7 = 3(7)^{2} + 4(-2) - 3$$
Where
$$x = 7$$

$$y = -2$$

$$7 = 2$$
evaluate...
$$x = 3$$

$$4(7)^{2} + 4(-2) - 3$$

$$= 3(49) + (-8) + 3$$

$$= 147 - 11$$

$$= 136$$

Order of Operations

Gorder matters!

P: () OR []

$$8 + [3^{2} \times (4+2)] - \frac{12}{2}$$
 $= 8 + [3^{2} \times 6] - \frac{12}{2}$
 $= 8 + [9 \times 6] - \frac{12}{2}$
 $\Rightarrow 8 + [9 \times 6] - \frac{12}{2}$

Part 2

vocabulary:

additive identity additive inverse associative

Commutative distributive property multiplicative identity multiplicative inverse multiplicative zero property

associative property: Change grouping V

(2+3)+4=2+(3+4) $(4x5)\times 6=4\times(5\times 6)$

Addition Multiplication

DOES NOT work for

Commutative Property: change order V

Addition

Multiplication

Or DIVISION!!!

SUBTRACTION

240-1

W

X

additive identity

$$a + (-a) = 0$$

 $(-a) + a = 0$

Ex.
$$4+(-4)=0$$

 $(-4)+4=0$

Multiplicative identity

$$a \cdot 1 = a$$

multiplicative inverse

$$a \cdot \frac{1}{a} = 1$$
 Ex. $5 \cdot \frac{1}{5} =$

$$\frac{1}{a} \cdot a = 1$$
 $\frac{1}{5} \cdot 5 =$

$$a \cdot 0 = a$$

multiplicative zero

property

distributive property

Ex.
$$4(x+2) = (4)(x)+(4)(2) = 4x+8$$



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