

PRE-CALCULUS STUDY GUIDE

THE FORMAL RULES OF ALGEBRA

ALGEBRA is a method of written calculations. And a calculation is replacing one set of symbols with another. In arithmetic we may replace the symbols ' $2 + 2$ ' with the symbol ' 4 '. In algebra we may replace ' $a + (-a)$ ' with ' 0 '.

$$a + [-a] = 0.$$

A formal rule, then, shows how an expression written in one form may be rewritten in a different form. The '=' sign means "may be rewritten as" or "may be replaced by."

If p and q are statements (equations), then a rule

If p , then q .

or equivalently

p implies q .

means: We may replace statement p with statement q . For example,

$$x + a = b \text{ implies } x = b - a.$$

That means that we may replace the statement ' $x + a = b$ ' with the statement ' $x = b - a$ '.

Algebra depends on how things look. We can say, then, that algebra is a system of formal rules. The following are what we are permitted to write.

1. The axioms of "equals"

$$a = a$$

$$\text{If } a = b, \text{ then } b = a.$$

$$\text{If } a = b \text{ and } b = c, \text{ then } a = c.$$

Identity

Symmetry

Transitivity

It is not possible to give an explicit definition of the word "equals," or its symbol '='. Those rules however are an implicit definition. The meaning of "equals" implies those three rules.

2. The commutative rules of addition and multiplication

$$\begin{array}{lcl} a + b & = & b + a \\ a \cdot b & = & b \cdot a \end{array}$$

3. The identity elements of addition and multiplication:

0 and 1

$$a + 0 = 0 + a = a$$

$$a \cdot 1 = 1 \cdot a = a$$

Thus, if we "operate" on a number with an identity element, it returns that number unchanged.

4. The additive inverse of a : $-a$

$$a + [-a] = -a + a = 0$$

The "inverse" of a number undoes what the number does.

For example, if you start with 5 and add 2, then to get back to 5 you must add -2. Adding $2 + (-2)$ is then the same as adding 0 -- which is the identity.

5. The multiplicative inverse or reciprocal of a , symbolized as

$$\frac{1}{a} \quad (a \neq 0)$$

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

Two numbers are called reciprocals of one another if their product is 1. Thus, $1/a$ symbolizes that number which, when multiplied by a , produces 1.

The reciprocal of $\frac{p}{q}$ is $\frac{q}{p}$.

6. The algebraic definition of subtraction

$$a - b = a + (-b)$$

Subtraction, in algebra, is defined as addition of the inverse.

7. The algebraic definition of division

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

Division, in algebra, is defined as multiplication by the reciprocal. Hence, algebra has two fundamental operations: addition and multiplication.

8. The inverse of the inverse

$$-(-a) = a$$

9. The relationship of $b - a$ to $a - b$

$$b - a = -(a - b)$$

Now, $b + a$ is equal to $a + b$. But $b - a$ is the negative of $a - b$.

10. The Rule of Signs for multiplication, division, and 10. fractions

$$a(-b) = -ab, \quad (-a)b = -ab, \quad (-a)(-b) = ab.$$

$$\frac{-a}{-b} = -\frac{a}{b}, \quad \frac{-a}{b} = -\frac{a}{b}, \quad \frac{-a}{-b} = \frac{a}{b}.$$

"Like signs produce a positive number; unlike signs, a negative number."

11. Rules for 0

$$a \cdot 0 = 0 \cdot a = 0.$$

If a not equal 0, then

$$\frac{0}{a} = 0, \quad \frac{a}{0} = \text{No value}, \quad \frac{0}{0} = \text{Any number}.$$

12. Multiplying/Factoring

$$m(a + b) = ma + mb$$

The distributive rule/
Common factor



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Ernest Woodward



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