

# 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"

$$a = a$$

If  $a = b$ , then  $b = a$ .

If  $a = b$  and  $b = c$ , 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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**Xiaolong Qi**



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