Properties of Real Numbers Let a h and c he real numbers

ζCι	и,	ν ,	anu	L	DC	Icai	mumbers.	

Closure

Identity

Inverse

Distributive

Addition Properties

(a + b) + c = a + (b + c)

There exists a unique real number 0 such that

a + 0 = 0 + a = a

For each real number a. there is a unique real

number -a such that a + (-a) = (-a) + a = 0.

unique real number 1/a

ab = ba

(ab)c = a(bc)

number a, there is a

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

Multiplication Properties

ab is a unique real number.

There exists a unique real

number 1 such that

 $a \cdot 1 = 1 \cdot a = a$ For each nonzero real

a(b+c) = ab + ac

Commutative a + b = b + aAssociative

number.

a + b is a unique real