

2.2-2.4 Properties

Goals: *Understand, identify and apply properties of addition and multiplication

Properties of Addition

Commutative Property:

Algebra:

Ex:

Associative Property:

Algebra:

Ex:

Identity Property:

Algebra:

Ex:

Inverse Property:

Algebra:

Ex:

Identify the property being illustrated.

Ex: $(7) + (-7) = 0$

Ex: $-12 + 0 = -12$

Ex: $4 + 8 = 8 + 4$

Properties of Multiplication

Commutative Property:

Algebra:

Ex:

Associative Property:

Algebra:

Ex:

Identity Property:

Algebra:

Ex:

Property of Zero:

Algebra:

Ex:

Property of -1:

Algebra:

Ex:

Identify the property being illustrated.

Ex: $-1 \cdot 8 = -8$

Ex: $12 \cdot x = x \cdot 12$

Ex: $(y \cdot 9) \cdot 4 = y \cdot (9 \cdot 4)$

Ex: $0 \cdot 41 = 0$

Ex: $-5(-6) = (-6)(-5)$

Ex: $-13(-1) = 13$