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Properties of Equality

Properties of Equality	Property	Example(s)
Addition Property of Equality	If $a = b$, then $a + c = b + c$.	
Subtraction Property of Equality	If $a = b$, then $a - c = b - c$	
Multiplication Property of Equality	If a = b, then ac = bc	
Division Property of Equality	If a = b, then a/c = b/c	

Properties of Operations and Identities

Properties of Operations and Identities	Property	Example(s)
Commutative Property of Addition	a + b = b + a	
Commutative Property of Multiplication	$a \cdot b = b \cdot a$	
Associative Property of Addition	a + (b + c) = (a + b) + c	
Associative Property of Multiplication	$a \cdot (b \cdot c) = (a \cdot b) \cdot c$	

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Distributive Property of Multiplication over Addition	a · (b + c) = a · b + a · c	
Additive Identity Property	a + 0 = a	
Multiplicative Identity Property	a · 1 = a	
Additive Inverse Property	a + (-a) = 0	
Multiplicative Inverse Property	$\frac{a}{b} \cdot \frac{b}{a} = 1$	
Multiplicative Property of Zero	$a \cdot 0 = 0$	
Exponential Property of Equality	$a^b = a^c$, then $b = c$	

Equation	Steps
x + (4x + 32) = 12	Original equation
5x + 32 = 12	Associative property of addition
5x = -20	
	Division property of equality

7.	Equation	Steps
	4(x-6) = 40	Original equation
	x - 6 = 10	
	x = 16	

Equation	Steps
1.4 - 0.3x + 0.7x = 9.4	Original equation
1.4 + 0.4x = 9.4	
0.4x = 8	
x = 20	