(Back side)

Cut out this box

Reflexive Property of Equality

Symmetric Property of Equality

Transitive Property of Equality

Addition Property of Equality

Subtraction Property of Equality

Multiplication Property of Equality

Division Property of Equality

Substitution Property of Equality

Distributive Property

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ALGEBRAIC PROPERTIES OF EQUALITY

If a, then a = a	Examples:
If a = b, then b = a	Examples:
If a = b and b = c, then a = c	Examples:
If a = b, then a + c = b + c	Examples:
If a = b, then a - c = b -c	Examples:
If a = b, then ac = bc	Examples:
If a = b, then $\frac{a}{c} = \frac{b}{c}$	Examples:
If a = b, then you may replace b with a in any expression	Examples:
a(b+c) = ab + ac a(b-c) = ab - ac	Examples:

If $9x - 8 = 19$, then $9x = 27$	If $9x - 8 = 19$, then $9x = 27$	If $9x - 8 = 19$, then $9x = 27$
If $7x = 35$, then $x = 5$	If $7x = 35$, then $x = 5$	If $7x = 35$, then $x = 5$
If KN = BR, then BR = KN	If KN = BR, then BR = KN	If KN = BR, then BR = KN
If $x = 2$ and $y = 2$, then $x = y$	If $x = 2$ and $y = 2$, then $x = y$	If $x = 2$ and $y = 2$, then $x = y$
If $2(y+2) = 22$, then $2y + 4 = 22$	If $2(y+2) = 22$, then $2y + 4 = 22$	If $2(y+2) = 22$, then $2y + 4 = 22$
If $3x + y = 8$ and $y = 2$, then $3x + 2 =$?	If $3x + y = 8$ and $y = 2$, then $3x + 2 =$?	If $3x + y = 8$ and $y = 2$, then $3x + 2 =$?
If C, then C = C	If C, then C = C	If C, then C = C
If $2x + 5 = 12$, then $2x = 7$	If $2x + 5 = 12$, then $2x = 7$	If $2x + 5 = 12$, then $2x = 7$
If $\frac{x}{3} = 2$, then $x = 6$	If $\frac{x}{3} = 2$, then $x = 6$	If $\frac{x}{3} = 2$, then $x = 6$

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If $\frac{a}{2} = 12$, then $a = 24$

If $\frac{a}{2} = 12$, then $a = 24$

If $\frac{a}{2} = 12$, then $a = 24$

If $a = 5$ and $b = 5$, then $a = b$

If $a = 5$ and $b = 5$, then $a = b$

If $a = 5$ and $b = 5$, then $a = b$

If p, then p = p

If p, then p = p

If p, then p = p

If $6x - 2 = 10$, then $6x = 12$

If $6x - 2 = 10$, then $6x = 12$

If $6x - 2 = 10$, then $6x = 12$

If $8x = 32$, then $x = 4$

If $8x = 32$, then $x = 4$

If $8x = 32$, then $x = 4$

If $5z + 3x = 12$ and $z=2$, then $5(2) + 3x = 12$

If $5z + 3x = 12$ and $z=2$, then $5(2) + 3x = 12$

If $5z + 3x = 12$ and $z=2$, then $5(2) + 3x = 12$

If $3x + 13 = 20$, then $3x = 7$

If $3x + 13 = 20$, then $3x = 7$

If $3x + 13 = 20$, then $3x = 7$

If $3(y-2) = 12$, then $3y - 6 = 12$

If $3(y-2) = 12$, then $3y - 6 = 12$

If $3(y-2) = 12$, then $3y - 6 = 12$

If QN = PR, then PR = QN

If QN = PR, then PR = QN

If QN = PR, then PR = QN

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