

Batch 4eaec4eb

Algebraic Properties

Version 1

Match the name to the definition.

- | | | |
|-------------------------------|--|---|
| (1) <input type="checkbox"/> | distributive property | (A) $(a + b) + c = a + (b + c)$ |
| (2) <input type="checkbox"/> | multiplicative property of equality | (B) $1x = x$ |
| (3) <input type="checkbox"/> | reflexive property | (C) $ab = ba$ |
| (4) <input type="checkbox"/> | associative property of addition | (D) if $a = b$, then $a + x = b + x$ |
| (5) <input type="checkbox"/> | associative property of multiplication | (E) $(-a)(-b) = ab$ |
| (6) <input type="checkbox"/> | transitive property of equality | (F) $(ab)c = a(bc)$ |
| (7) <input type="checkbox"/> | additive identity | (G) $x + 0 = x$ |
| (8) <input type="checkbox"/> | additive property of equality | (H) $(ab)^n = a^n b^n$ |
| (9) <input type="checkbox"/> | commutative property of multiplication | (I) if $a = b$ and $b = c$, then $a = c$ |
| (10) <input type="checkbox"/> | commutative property of addition | (J) $a + b = b + a$ |
| (11) <input type="checkbox"/> | multiplicative identity | (K) if $a = b$, then $ax = bx$ |

(L) $a(b + c) = ab + ac$

(M) $(-a)b = a(-b) = -ab$

(N) $a = a$

... for all a, b, c, x and n .

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Algebraic Properties

Version 2

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> transitive property of equality | (A) $(ab)^n = a^n b^n$ |
| (2) <input type="checkbox"/> multiplicative property of equality | (B) $a + b = b + a$ |
| (3) <input type="checkbox"/> additive identity | (C) if $a = b$, then $ax = bx$ |
| (4) <input type="checkbox"/> associative property of addition | (D) $1x = x$ |
| (5) <input type="checkbox"/> reflexive property | (E) $ab = ba$ |
| (6) <input type="checkbox"/> associative property of multiplication | (F) $x + 0 = x$ |
| (7) <input type="checkbox"/> additive property of equality | (G) $(a + b) + c = a + (b + c)$ |
| (8) <input type="checkbox"/> commutative property of multiplication | (H) if $a = b$, then $a + x = b + x$ |
| (9) <input type="checkbox"/> multiplicative identity | (I) $(-a)b = a(-b) = -ab$ |
| (10) <input type="checkbox"/> distributive property | (J) $(ab)c = a(bc)$ |
| (11) <input type="checkbox"/> commutative property of addition | (K) $a = a$ |
| | (L) $a(b + c) = ab + ac$ |
| | (M) $(-a)(-b) = ab$ |
| | (N) if $a = b$ and $b = c$, then $a = c$ |
- ... for all a, b, c, x and n .

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Algebraic Properties

Version 3

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> multiplicative property of equality | (A) $(-a)(-b) = ab$ |
| (2) <input type="checkbox"/> distributive property | (B) $(ab)^n = a^n b^n$ |
| (3) <input type="checkbox"/> transitive property of equality | (C) $ab = ba$ |
| (4) <input type="checkbox"/> associative property of multiplication | (D) $a = a$ |
| (5) <input type="checkbox"/> additive property of equality | (E) if $a = b$ and $b = c$, then $a = c$ |
| (6) <input type="checkbox"/> commutative property of addition | (F) if $a = b$, then $a + x = b + x$ |
| (7) <input type="checkbox"/> commutative property of multiplication | (G) $(a + b) + c = a + (b + c)$ |
| (8) <input type="checkbox"/> associative property of addition | (H) $(-a)b = a(-b) = -ab$ |
| (9) <input type="checkbox"/> reflexive property | (I) $a + b = b + a$ |
| (10) <input type="checkbox"/> additive identity | (J) $1x = x$ |
| (11) <input type="checkbox"/> multiplicative identity | (K) $x + 0 = x$ |
- (L) if $a = b$, then $ax = bx$
- (M) $(ab)c = a(bc)$
- (N) $a(b + c) = ab + ac$

... for all a, b, c, x and n .

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Algebraic Properties

Version 4

Match the name to the definition.

- (1) commutative property of multiplication
- (2) additive property of equality
- (3) transitive property of equality
- (4) reflexive property
- (5) associative property of addition
- (6) associative property of multiplication
- (7) multiplicative identity
- (8) multiplicative property of equality
- (9) commutative property of addition
- (10) distributive property
- (11) additive identity

(A) $(ab)c = a(bc)$

(B) $a + b = b + a$

(C) $a = a$

(D) $(a + b) + c = a + (b + c)$

(E) if $a = b$ and $b = c$, then $a = c$

(F) $1x = x$

(G) $x + 0 = x$

(H) $(-a)(-b) = ab$

(I) $ab = ba$

(J) $a(b + c) = ab + ac$

(K) $(ab)^n = a^n b^n$

(L) if $a = b$, then $ax = bx$

(M) if $a = b$, then $a + x = b + x$

(N) $(-a)b = a(-b) = -ab$

... for all a, b, c, x and n .

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Algebraic Properties

Version 5

Match the name to the definition.

(1) additive property of equality

(A) $(-a)(-b) = ab$

(2) reflexive property

(B) $(a + b) + c = a + (b + c)$

(3) associative property of multiplication

(C) if $a = b$ and $b = c$, then $a = c$

(4) transitive property of equality

(D) $a = a$

(5) additive identity

(E) $a + b = b + a$

(6) commutative property of multiplication

(F) $1x = x$

(7) multiplicative property of equality

(G) $(ab)c = a(bc)$

(8) distributive property

(H) $x + 0 = x$

(9) multiplicative identity

(I) $a(b + c) = ab + ac$

(10) commutative property of addition

(J) $ab = ba$

(11) associative property of addition

(K) if $a = b$, then $a + x = b + x$

(L) $(-a)b = a(-b) = -ab$

(M) if $a = b$, then $ax = bx$

(N) $(ab)^n = a^n b^n$

... for all a, b, c, x and n .

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Algebraic Properties

Version 6

Match the name to the definition.

- | | | |
|-------------------------------|--|---|
| (1) <input type="checkbox"/> | commutative property of addition | (A) $(-a)b = a(-b) = -ab$ |
| (2) <input type="checkbox"/> | associative property of addition | (B) if $a = b$, then $a + x = b + x$ |
| (3) <input type="checkbox"/> | reflexive property | (C) $(-a)(-b) = ab$ |
| (4) <input type="checkbox"/> | associative property of multiplication | (D) $a + b = b + a$ |
| (5) <input type="checkbox"/> | distributive property | (E) $ab = ba$ |
| (6) <input type="checkbox"/> | transitive property of equality | (F) if $a = b$ and $b = c$, then $a = c$ |
| (7) <input type="checkbox"/> | multiplicative identity | (G) $x + 0 = x$ |
| (8) <input type="checkbox"/> | multiplicative property of equality | (H) $a(b + c) = ab + ac$ |
| (9) <input type="checkbox"/> | additive identity | (I) if $a = b$, then $ax = bx$ |
| (10) <input type="checkbox"/> | additive property of equality | (J) $a = a$ |
| (11) <input type="checkbox"/> | commutative property of multiplication | (K) $(a + b) + c = a + (b + c)$ |

... for all a, b, c, x and n .

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Algebraic Properties

Version 7

Match the name to the definition.

- | | | |
|-------------------------------|--|---|
| (1) <input type="checkbox"/> | distributive property | (A) $ab = ba$ |
| (2) <input type="checkbox"/> | associative property of multiplication | (B) $(a + b) + c = a + (b + c)$ |
| (3) <input type="checkbox"/> | multiplicative property of equality | (C) $x + 0 = x$ |
| (4) <input type="checkbox"/> | commutative property of multiplication | (D) if $a = b$, then $ax = bx$ |
| (5) <input type="checkbox"/> | reflexive property | (E) $1x = x$ |
| (6) <input type="checkbox"/> | multiplicative identity | (F) if $a = b$, then $a + x = b + x$ |
| (7) <input type="checkbox"/> | associative property of addition | (G) $a = a$ |
| (8) <input type="checkbox"/> | additive identity | (H) $a + b = b + a$ |
| (9) <input type="checkbox"/> | additive property of equality | (I) $(ab)^n = a^n b^n$ |
| (10) <input type="checkbox"/> | transitive property of equality | (J) if $a = b$ and $b = c$, then $a = c$ |
| (11) <input type="checkbox"/> | commutative property of addition | (K) $(ab)c = a(bc)$ |

(L) $a(b + c) = ab + ac$

(M) $(-a)b = a(-b) = -ab$

(N) $(-a)(-b) = ab$

... for all a, b, c, x and n .

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Algebraic Properties

Version 8

Match the name to the definition.

(1) transitive property of equality

(A) $(ab)c = a(bc)$

(2) associative property of multiplication

(B) $a = a$

(3) additive property of equality

(C) if $a = b$, then $a + x = b + x$

(4) multiplicative property of equality

(D) $ab = ba$

(5) associative property of addition

(E) $(-a)b = a(-b) = -ab$

(6) commutative property of multiplication

(F) if $a = b$ and $b = c$, then $a = c$

(7) distributive property

(G) $a + b = b + a$

(8) additive identity

(H) $x + 0 = x$

(9) multiplicative identity

(I) $(ab)^n = a^n b^n$

(10) reflexive property

(J) $(a + b) + c = a + (b + c)$

(11) commutative property of addition

(K) $1x = x$

(L) if $a = b$, then $ax = bx$

(M) $a(b + c) = ab + ac$

(N) $(-a)(-b) = ab$

... for all a, b, c, x and n .

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Algebraic Properties

Version 9

Match the name to the definition.

- | | | |
|-------------------------------|--|---------------------------------------|
| (1) <input type="checkbox"/> | associative property of multiplication | (A) $ab = ba$ |
| (2) <input type="checkbox"/> | reflexive property | (B) $(-a)b = a(-b) = -ab$ |
| (3) <input type="checkbox"/> | associative property of addition | (C) $(ab)^n = a^n b^n$ |
| (4) <input type="checkbox"/> | distributive property | (D) if $a = b$, then $ax = bx$ |
| (5) <input type="checkbox"/> | commutative property of addition | (E) $x + 0 = x$ |
| (6) <input type="checkbox"/> | multiplicative property of equality | (F) $a(b + c) = ab + ac$ |
| (7) <input type="checkbox"/> | multiplicative identity | (G) $(ab)c = a(bc)$ |
| (8) <input type="checkbox"/> | transitive property of equality | (H) if $a = b$, then $a + x = b + x$ |
| (9) <input type="checkbox"/> | additive identity | (I) $(a + b) + c = a + (b + c)$ |
| (10) <input type="checkbox"/> | commutative property of multiplication | (J) $(-a)(-b) = ab$ |
| (11) <input type="checkbox"/> | additive property of equality | (K) $a + b = b + a$ |

(L) $1x = x$

(M) if $a = b$ and $b = c$, then $a = c$

(N) $a = a$

... for all a, b, c, x and n .

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Algebraic Properties

Version 10

Match the name to the definition.

- | | |
|--|---|
| (1) <input type="checkbox"/> associative property of multiplication | (A) $ab = ba$ |
| (2) <input type="checkbox"/> commutative property of addition | (B) if $a = b$, then $a + x = b + x$ |
| (3) <input type="checkbox"/> multiplicative property of equality | (C) $(a + b) + c = a + (b + c)$ |
| (4) <input type="checkbox"/> additive property of equality | (D) $(-a)(-b) = ab$ |
| (5) <input type="checkbox"/> transitive property of equality | (E) $a(b + c) = ab + ac$ |
| (6) <input type="checkbox"/> reflexive property | (F) $1x = x$ |
| (7) <input type="checkbox"/> distributive property | (G) $a + b = b + a$ |
| (8) <input type="checkbox"/> associative property of addition | (H) $a = a$ |
| (9) <input type="checkbox"/> multiplicative identity | (I) $(-a)b = a(-b) = -ab$ |
| (10) <input type="checkbox"/> additive identity | (J) $(ab)^n = a^n b^n$ |
| (11) <input type="checkbox"/> commutative property of multiplication | (K) if $a = b$, then $ax = bx$ |
| | (L) if $a = b$ and $b = c$, then $a = c$ |
| | (M) $x + 0 = x$ |
| | (N) $(ab)c = a(bc)$ |

... for all a, b, c, x and n .

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Algebraic Properties

Version 11

Match the name to the definition.

- | | | |
|-------------------------------|--|---|
| (1) <input type="checkbox"/> | associative property of addition | (A) $(a + b) + c = a + (b + c)$ |
| (2) <input type="checkbox"/> | associative property of multiplication | (B) $a(b + c) = ab + ac$ |
| (3) <input type="checkbox"/> | distributive property | (C) $a = a$ |
| (4) <input type="checkbox"/> | additive identity | (D) $1x = x$ |
| (5) <input type="checkbox"/> | commutative property of addition | (E) $x + 0 = x$ |
| (6) <input type="checkbox"/> | commutative property of multiplication | (F) if $a = b$, then $ax = bx$ |
| (7) <input type="checkbox"/> | reflexive property | (G) $(-a)b = a(-b) = -ab$ |
| (8) <input type="checkbox"/> | transitive property of equality | (H) if $a = b$ and $b = c$, then $a = c$ |
| (9) <input type="checkbox"/> | multiplicative property of equality | (I) $(ab)c = a(bc)$ |
| (10) <input type="checkbox"/> | additive property of equality | (J) if $a = b$, then $a + x = b + x$ |
| (11) <input type="checkbox"/> | multiplicative identity | (K) $(-a)(-b) = ab$ |
| | | (L) $a + b = b + a$ |
| | | (M) $(ab)^n = a^n b^n$ |
| | | (N) $ab = ba$ |

... for all a, b, c, x and n .

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Algebraic Properties

Version 12

Match the name to the definition.

(1) multiplicative property of equality

(2) associative property of addition

(3) associative property of multiplication

(4) reflexive property

(5) commutative property of addition

(6) multiplicative identity

(7) transitive property of equality

(8) distributive property

(9) commutative property of multiplication

(10) additive identity

(11) additive property of equality

(A) if $a = b$, then $ax = bx$

(B) $ab = ba$

(C) $(-a)b = a(-b) = -ab$

(D) $a + b = b + a$

(E) $x + 0 = x$

(F) $(ab)c = a(bc)$

(G) if $a = b$, then $a + x = b + x$

(H) $1x = x$

(I) if $a = b$ and $b = c$, then $a = c$

(J) $a(b + c) = ab + ac$

(K) $(-a)(-b) = ab$

(L) $(ab)^n = a^n b^n$

(M) $(a + b) + c = a + (b + c)$

(N) $a = a$

... for all a, b, c, x and n .

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Algebraic Properties

Version 13

Match the name to the definition.

- | | |
|--|---|
| (1) <input type="checkbox"/> associative property of multiplication | (A) $a = a$ |
| (2) <input type="checkbox"/> reflexive property | (B) if $a = b$, then $ax = bx$ |
| (3) <input type="checkbox"/> multiplicative identity | (C) $x + 0 = x$ |
| (4) <input type="checkbox"/> multiplicative property of equality | (D) $a(b + c) = ab + ac$ |
| (5) <input type="checkbox"/> transitive property of equality | (E) $(a + b) + c = a + (b + c)$ |
| (6) <input type="checkbox"/> additive identity | (F) $ab = ba$ |
| (7) <input type="checkbox"/> associative property of addition | (G) $1x = x$ |
| (8) <input type="checkbox"/> distributive property | (H) $a + b = b + a$ |
| (9) <input type="checkbox"/> additive property of equality | (I) $(-a)b = a(-b) = -ab$ |
| (10) <input type="checkbox"/> commutative property of addition | (J) if $a = b$ and $b = c$, then $a = c$ |
| (11) <input type="checkbox"/> commutative property of multiplication | (K) $(ab)c = a(bc)$ |
| | (L) $(ab)^n = a^n b^n$ |
| | (M) $(-a)(-b) = ab$ |
| | (N) if $a = b$, then $a + x = b + x$ |
| | ... for all a, b, c, x and n . |

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Algebraic Properties

Version 14

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> multiplicative identity | (A) if $a = b$, then $a + x = b + x$ |
| (2) <input type="checkbox"/> distributive property | (B) if $a = b$ and $b = c$, then $a = c$ |
| (3) <input type="checkbox"/> transitive property of equality | (C) $(-a)b = a(-b) = -ab$ |
| (4) <input type="checkbox"/> associative property of multiplication | (D) $a(b + c) = ab + ac$ |
| (5) <input type="checkbox"/> additive property of equality | (E) $ab = ba$ |
| (6) <input type="checkbox"/> commutative property of addition | (F) $(ab)c = a(bc)$ |
| (7) <input type="checkbox"/> associative property of addition | (G) $x + 0 = x$ |
| (8) <input type="checkbox"/> commutative property of multiplication | (H) $1x = x$ |
| (9) <input type="checkbox"/> multiplicative property of equality | (I) $(a + b) + c = a + (b + c)$ |
| (10) <input type="checkbox"/> reflexive property | (J) $(-a)(-b) = ab$ |
| (11) <input type="checkbox"/> additive identity | (K) if $a = b$, then $ax = bx$ |
| | (L) $(ab)^n = a^n b^n$ |
| | (M) $a + b = b + a$ |
| | (N) $a = a$ |

... for all a, b, c, x and n .

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Algebraic Properties

Version 15

Match the name to the definition.

- | | |
|---|---------------------------------------|
| (1) <input type="checkbox"/> associative property of multiplication | (A) $(-a)(-b) = ab$ |
| (2) <input type="checkbox"/> distributive property | (B) if $a = b$, then $ax = bx$ |
| (3) <input type="checkbox"/> transitive property of equality | (C) $(a + b) + c = a + (b + c)$ |
| (4) <input type="checkbox"/> multiplicative property of equality | (D) $(ab)c = a(bc)$ |
| (5) <input type="checkbox"/> commutative property of multiplication | (E) $a(b + c) = ab + ac$ |
| (6) <input type="checkbox"/> reflexive property | (F) $a = a$ |
| (7) <input type="checkbox"/> associative property of addition | (G) if $a = b$, then $a + x = b + x$ |
| (8) <input type="checkbox"/> additive identity | (H) $ab = ba$ |
| (9) <input type="checkbox"/> commutative property of addition | (I) $a + b = b + a$ |
| (10) <input type="checkbox"/> additive property of equality | (J) $1x = x$ |
| (11) <input type="checkbox"/> multiplicative identity | (K) $(-a)b = a(-b) = -ab$ |

(L) if $a = b$ and $b = c$, then $a = c$ (M) $x + 0 = x$ (N) $(ab)^n = a^n b^n$... for all a, b, c, x and n .

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Algebraic Properties

Version 16

Match the name to the definition.

- | | | |
|-------------------------------|--|---|
| (1) <input type="checkbox"/> | additive property of equality | (A) $(ab)c = a(bc)$ |
| (2) <input type="checkbox"/> | reflexive property | (B) if $a = b$, then $a + x = b + x$ |
| (3) <input type="checkbox"/> | commutative property of multiplication | (C) $a = a$ |
| (4) <input type="checkbox"/> | associative property of multiplication | (D) $(ab)^n = a^n b^n$ |
| (5) <input type="checkbox"/> | transitive property of equality | (E) $a(b + c) = ab + ac$ |
| (6) <input type="checkbox"/> | multiplicative property of equality | (F) $x + 0 = x$ |
| (7) <input type="checkbox"/> | commutative property of addition | (G) if $a = b$, then $ax = bx$ |
| (8) <input type="checkbox"/> | associative property of addition | (H) $(-a)b = a(-b) = -ab$ |
| (9) <input type="checkbox"/> | distributive property | (I) if $a = b$ and $b = c$, then $a = c$ |
| (10) <input type="checkbox"/> | additive identity | (J) $(a + b) + c = a + (b + c)$ |
| (11) <input type="checkbox"/> | multiplicative identity | (K) $a + b = b + a$ |
| | | (L) $ab = ba$ |
| | | (M) $1x = x$ |
| | | (N) $(-a)(-b) = ab$ |

... for all a, b, c, x and n .

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Algebraic Properties

Version 17

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> reflexive property | (A) $x + 0 = x$ |
| (2) <input type="checkbox"/> distributive property | (B) $a = a$ |
| (3) <input type="checkbox"/> multiplicative identity | (C) if $a = b$ and $b = c$, then $a = c$ |
| (4) <input type="checkbox"/> additive property of equality | (D) $(ab)c = a(bc)$ |
| (5) <input type="checkbox"/> commutative property of addition | (E) $(-a)(-b) = ab$ |
| (6) <input type="checkbox"/> additive identity | (F) $1x = x$ |
| (7) <input type="checkbox"/> commutative property of multiplication | (G) $(ab)^n = a^n b^n$ |
| (8) <input type="checkbox"/> associative property of multiplication | (H) if $a = b$, then $a + x = b + x$ |
| (9) <input type="checkbox"/> associative property of addition | (I) if $a = b$, then $ax = bx$ |
| (10) <input type="checkbox"/> multiplicative property of equality | (J) $ab = ba$ |
| (11) <input type="checkbox"/> transitive property of equality | (K) $(a + b) + c = a + (b + c)$ |

... for all a, b, c, x and n .

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Algebraic Properties

Version 18

Match the name to the definition.

- | | |
|--|---|
| (1) <input type="checkbox"/> associative property of addition | (A) $1x = x$ |
| (2) <input type="checkbox"/> multiplicative identity | (B) $(a + b) + c = a + (b + c)$ |
| (3) <input type="checkbox"/> multiplicative property of equality | (C) $x + 0 = x$ |
| (4) <input type="checkbox"/> additive property of equality | (D) $(ab)c = a(bc)$ |
| (5) <input type="checkbox"/> distributive property | (E) $(ab)^n = a^n b^n$ |
| (6) <input type="checkbox"/> commutative property of addition | (F) $a(b + c) = ab + ac$ |
| (7) <input type="checkbox"/> additive identity | (G) if $a = b$ and $b = c$, then $a = c$ |
| (8) <input type="checkbox"/> commutative property of multiplication | (H) $(-a)(-b) = ab$ |
| (9) <input type="checkbox"/> transitive property of equality | (I) if $a = b$, then $ax = bx$ |
| (10) <input type="checkbox"/> associative property of multiplication | (J) if $a = b$, then $a + x = b + x$ |
| (11) <input type="checkbox"/> reflexive property | (K) $ab = ba$ |

(L) $a = a$

(M) $a + b = b + a$

(N) $(-a)b = a(-b) = -ab$

... for all a, b, c, x and n .

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Algebraic Properties

Version 19

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> multiplicative property of equality | (A) $(ab)c = a(bc)$ |
| (2) <input type="checkbox"/> distributive property | (B) $1x = x$ |
| (3) <input type="checkbox"/> transitive property of equality | (C) $a(b + c) = ab + ac$ |
| (4) <input type="checkbox"/> multiplicative identity | (D) $(-a)(-b) = ab$ |
| (5) <input type="checkbox"/> additive identity | (E) $a + b = b + a$ |
| (6) <input type="checkbox"/> additive property of equality | (F) if $a = b$ and $b = c$, then $a = c$ |
| (7) <input type="checkbox"/> associative property of multiplication | (G) $a = a$ |
| (8) <input type="checkbox"/> reflexive property | (H) $x + 0 = x$ |
| (9) <input type="checkbox"/> commutative property of multiplication | (I) $ab = ba$ |
| (10) <input type="checkbox"/> commutative property of addition | (J) if $a = b$, then $ax = bx$ |
| (11) <input type="checkbox"/> associative property of addition | (K) if $a = b$, then $a + x = b + x$ |
| | (L) $(ab)^n = a^n b^n$ |
| | (M) $(a + b) + c = a + (b + c)$ |
| | (N) $(-a)b = a(-b) = -ab$ |
| | ... for all a, b, c, x and n . |

Batch 4eaec4eb

Algebraic Properties

Version 20

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> additive identity | (A) $a + b = b + a$ |
| (2) <input type="checkbox"/> commutative property of multiplication | (B) if $a = b$, then $ax = bx$ |
| (3) <input type="checkbox"/> multiplicative property of equality | (C) $(a + b) + c = a + (b + c)$ |
| (4) <input type="checkbox"/> reflexive property | (D) $(ab)^n = a^n b^n$ |
| (5) <input type="checkbox"/> associative property of addition | (E) $(-a)(-b) = ab$ |
| (6) <input type="checkbox"/> associative property of multiplication | (F) $ab = ba$ |
| (7) <input type="checkbox"/> additive property of equality | (G) if $a = b$, then $a + x = b + x$ |
| (8) <input type="checkbox"/> multiplicative identity | (H) $a(b + c) = ab + ac$ |
| (9) <input type="checkbox"/> transitive property of equality | (I) $x + 0 = x$ |
| (10) <input type="checkbox"/> distributive property | (J) $a = a$ |
| (11) <input type="checkbox"/> commutative property of addition | (K) if $a = b$ and $b = c$, then $a = c$ |
| | (L) $1x = x$ |
| | (M) $(ab)c = a(bc)$ |
| | (N) $(-a)b = a(-b) = -ab$ |
| | ... for all a, b, c, x and n . |

Batch 4eaec4eb

Algebraic Properties

Version 21

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> reflexive property | (A) $x + 0 = x$ |
| (2) <input type="checkbox"/> commutative property of multiplication | (B) $(-a)(-b) = ab$ |
| (3) <input type="checkbox"/> transitive property of equality | (C) if $a = b$, then $ax = bx$ |
| (4) <input type="checkbox"/> associative property of multiplication | (D) if $a = b$ and $b = c$, then $a = c$ |
| (5) <input type="checkbox"/> distributive property | (E) $(-a)b = a(-b) = -ab$ |
| (6) <input type="checkbox"/> multiplicative identity | (F) $a + b = b + a$ |
| (7) <input type="checkbox"/> associative property of addition | (G) $1x = x$ |
| (8) <input type="checkbox"/> additive identity | (H) $a(b + c) = ab + ac$ |
| (9) <input type="checkbox"/> commutative property of addition | (I) if $a = b$, then $a + x = b + x$ |
| (10) <input type="checkbox"/> additive property of equality | (J) $ab = ba$ |
| (11) <input type="checkbox"/> multiplicative property of equality | (K) $a = a$ |
| | (L) $(ab)^n = a^n b^n$ |
| | (M) $(ab)c = a(bc)$ |
| | (N) $(a + b) + c = a + (b + c)$ |

... for all a, b, c, x and n .

Batch 4eae4eb

Algebraic Properties

Version 22

Match the name to the definition.

- | | |
|--|---|
| (1) <input type="checkbox"/> associative property of addition | (A) if $a = b$, then $ax = bx$ |
| (2) <input type="checkbox"/> multiplicative identity | (B) $(ab)c = a(bc)$ |
| (3) <input type="checkbox"/> distributive property | (C) $(-a)(-b) = ab$ |
| (4) <input type="checkbox"/> multiplicative property of equality | (D) $(-a)b = a(-b) = -ab$ |
| (5) <input type="checkbox"/> reflexive property | (E) $ab = ba$ |
| (6) <input type="checkbox"/> additive identity | (F) $x + 0 = x$ |
| (7) <input type="checkbox"/> commutative property of addition | (G) $(ab)^n = a^n b^n$ |
| (8) <input type="checkbox"/> additive property of equality | (H) if $a = b$ and $b = c$, then $a = c$ |
| (9) <input type="checkbox"/> associative property of multiplication | (I) $a(b + c) = ab + ac$ |
| (10) <input type="checkbox"/> transitive property of equality | (J) $(a + b) + c = a + (b + c)$ |
| (11) <input type="checkbox"/> commutative property of multiplication | (K) $a + b = b + a$ |
| | (L) $a = a$ |
| | (M) if $a = b$, then $a + x = b + x$ |
| | (N) $1x = x$ |

... for all a, b, c, x and n .

Batch 4eaec4eb

Algebraic Properties

Version 23

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> transitive property of equality | (A) if $a = b$ and $b = c$, then $a = c$ |
| (2) <input type="checkbox"/> reflexive property | (B) $(ab)c = a(bc)$ |
| (3) <input type="checkbox"/> commutative property of addition | (C) if $a = b$, then $ax = bx$ |
| (4) <input type="checkbox"/> commutative property of multiplication | (D) $a(b + c) = ab + ac$ |
| (5) <input type="checkbox"/> additive identity | (E) $(-a)(-b) = ab$ |
| (6) <input type="checkbox"/> multiplicative property of equality | (F) if $a = b$, then $a + x = b + x$ |
| (7) <input type="checkbox"/> associative property of multiplication | (G) $a = a$ |
| (8) <input type="checkbox"/> multiplicative identity | (H) $x + 0 = x$ |
| (9) <input type="checkbox"/> distributive property | (I) $ab = ba$ |
| (10) <input type="checkbox"/> additive property of equality | (J) $(a + b) + c = a + (b + c)$ |
| (11) <input type="checkbox"/> associative property of addition | (K) $a + b = b + a$ |
| | (L) $(-a)b = a(-b) = -ab$ |
| | (M) $1x = x$ |
| | (N) $(ab)^n = a^n b^n$ |

... for all a, b, c, x and n .

Batch 4eae4eb

Algebraic Properties

Version 24

Match the name to the definition.

- | | |
|---|---------------------------------------|
| (1) <input type="checkbox"/> distributive property | (A) if $a = b$, then $ax = bx$ |
| (2) <input type="checkbox"/> additive identity | (B) $(ab)c = a(bc)$ |
| (3) <input type="checkbox"/> additive property of equality | (C) $a(b + c) = ab + ac$ |
| (4) <input type="checkbox"/> associative property of multiplication | (D) $(ab)^n = a^n b^n$ |
| (5) <input type="checkbox"/> reflexive property | (E) $a = a$ |
| (6) <input type="checkbox"/> commutative property of addition | (F) $x + 0 = x$ |
| (7) <input type="checkbox"/> commutative property of multiplication | (G) if $a = b$, then $a + x = b + x$ |
| (8) <input type="checkbox"/> transitive property of equality | (H) $(-a)(-b) = ab$ |
| (9) <input type="checkbox"/> multiplicative property of equality | (I) $(a + b) + c = a + (b + c)$ |
| (10) <input type="checkbox"/> associative property of addition | (J) $1x = x$ |
| (11) <input type="checkbox"/> multiplicative identity | (K) $(-a)b = a(-b) = -ab$ |

(L) if $a = b$ and $b = c$, then $a = c$ (M) $a + b = b + a$ (N) $ab = ba$... for all a, b, c, x and n .

Batch 4eaec4eb

Algebraic Properties

Version 25

Match the name to the definition.

- | | |
|---|---|
| (1) <input type="checkbox"/> reflexive property | (A) $a + b = b + a$ |
| (2) <input type="checkbox"/> associative property of multiplication | (B) $1x = x$ |
| (3) <input type="checkbox"/> multiplicative property of equality | (C) if $a = b$ and $b = c$, then $a = c$ |
| (4) <input type="checkbox"/> additive property of equality | (D) $(-a)b = a(-b) = -ab$ |
| (5) <input type="checkbox"/> associative property of addition | (E) $ab = ba$ |
| (6) <input type="checkbox"/> additive identity | (F) $(a + b) + c = a + (b + c)$ |
| (7) <input type="checkbox"/> commutative property of multiplication | (G) if $a = b$, then $ax = bx$ |
| (8) <input type="checkbox"/> distributive property | (H) $(-a)(-b) = ab$ |
| (9) <input type="checkbox"/> multiplicative identity | (I) $(ab)c = a(bc)$ |
| (10) <input type="checkbox"/> transitive property of equality | (J) $a = a$ |
| (11) <input type="checkbox"/> commutative property of addition | (K) $x + 0 = x$ |
| | (L) $a(b + c) = ab + ac$ |
| | (M) if $a = b$, then $a + x = b + x$ |
| | (N) $(ab)^n = a^n b^n$ |

... for all a, b, c, x and n .

V. 1	V. 2	V. 3	V. 4	V. 5	V. 6	V. 7	V. 8	V. 9	V. 10	V. 11
1 L	1 N	1 L	1 I	1 K	1 D	1 L	1 F	1 G	1 N	1 A
2 K	2 C	2 N	2 M	2 D	2 K	2 K	2 A	2 N	2 G	2 I
3 N	3 F	3 E	3 E	3 G	3 J	3 D	3 C	3 I	3 K	3 B
4 A	4 G	4 M	4 C	4 C	4 L	4 A	4 L	4 F	4 B	4 E
5 F	5 K	5 F	5 D	5 H	5 H	5 G	5 J	5 K	5 L	5 L
6 I	6 J	6 I	6 A	6 J	6 F	6 E	6 D	6 D	6 H	6 N
7 G	7 H	7 C	7 F	7 M	7 N	7 B	7 M	7 L	7 E	7 C
8 D	8 E	8 G	8 L	8 I	8 I	8 C	8 H	8 M	8 C	8 H
9 C	9 D	9 D	9 B	9 F	9 G	9 F	9 K	9 E	9 F	9 F
10 J	10 L	10 K	10 J	10 E	10 B	10 J	10 B	10 A	10 M	10 J
11 B	11 B	11 J	11 G	11 B	11 E	11 H	11 G	11 H	11 A	11 D

V. 12	V. 13	V. 14	V. 15	V. 16	V. 17	V. 18	V. 19	V. 20	V. 21
1 A	1 K	1 H	1 D	1 B	1 B	1 B	1 J	1 I	1 K
2 M	2 A	2 D	2 E	2 C	2 N	2 A	2 C	2 F	2 J
3 F	3 G	3 B	3 L	3 L	3 F	3 I	3 F	3 B	3 D
4 N	4 B	4 F	4 B	4 A	4 H	4 J	4 B	4 J	4 M
5 D	5 J	5 A	5 H	5 I	5 L	5 F	5 H	5 C	5 H
6 H	6 C	6 M	6 F	6 G	6 A	6 M	6 K	6 M	6 G
7 I	7 E	7 I	7 C	7 K	7 J	7 C	7 A	7 G	7 N
8 J	8 D	8 E	8 M	8 J	8 D	8 K	8 G	8 L	8 A
9 B	9 N	9 K	9 I	9 E	9 K	9 G	9 I	9 K	9 F
10 E	10 H	10 N	10 G	10 F	10 I	10 D	10 E	10 H	10 I
11 G	11 F	11 G	11 J	11 M	11 C	11 L	11 M	11 A	11 C

V. 22	V. 23	V. 24	V. 25
1 J	1 A	1 C	1 J
2 N	2 G	2 F	2 I
3 I	3 K	3 G	3 G
4 A	4 I	4 B	4 M
5 L	5 H	5 E	5 F
6 F	6 C	6 M	6 K
7 K	7 B	7 N	7 E
8 M	8 M	8 L	8 L
9 B	9 D	9 A	9 B
10 H	10 F	10 I	10 C
11 E	11 J	11 J	11 A