name | date | period

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Algebraic Properties

Version 1

Match the name to the definition.

(1) ☐ distributive property

(2) ☐ reflexive property

(3) ☐ commutative property of addition

(4) ☐ multiplicative identity

(5) ☐ multiplicative property of equality

(6) ☐ associative property of multiplication

(7) ☐ associative property of addition

(8) ☐ commutative property of multiplication

(9) ☐ additive property of equality

(10) ☐ transitive property of equality

(11) ☐ additive identity

(A) $a = a$

(B) if $a = b$ then $ax = bx$

(C) $ab = ba$

(D) if $a = b$ then $a + x = b + x$

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

(F) $x + 0 = x$

(G) $1x = x$

(H) $a + b = b + a$

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

(J) if $a = b$ and $b = c$ then $a = c$

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

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

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

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

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

name | date | period

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Algebraic Properties

Version 2

Match the name to the definition.

(1) ☐ additive identity

(2) ☐ reflexive property

(3) ☐ commutative property of addition

(4) ☐ distributive property

(5) ☐ multiplicative property of equality

(6) ☐ transitive property of equality

(7) ☐ associative property of multiplication

(8) ☐ multiplicative identity

(9) ☐ commutative property of multiplication

(10) ☐ associative property of addition

(11) ☐ additive property of equality

(A) $x + 0 = x$

(B) if $a = b$ and $b = c$ then $a = c$

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

(D) $a = a$

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

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

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

(H) $ab = ba$

(I) if $a = b$ then $a + x = b + x$

(J) $1x = x$

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

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

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

(N) if $a = b$ then $ax = bx$

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

name | date | period

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Algebraic Properties

Version 3

Match the name to the definition.

(1) ☐ commutative property of addition

(2) ☐ associative property of addition

(3) ☐ additive identity

(4) ☐ associative property of multiplication

(5) ☐ multiplicative identity

(6) ☐ multiplicative property of equality

(7) ☐ reflexive property

(8) ☐ distributive property

(9) ☐ commutative property of multiplication

(10) ☐ additive property of equality

(11) ☐ transitive property of equality

(A) $a = a$

(B) $x + 0 = x$

(C) $ab = ba$

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

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

(F) $1x = x$

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

(H) $a + b = b + a$

(I) if $a = b$ then $ax = bx$

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

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

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

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

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

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

name | date | period

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Algebraic Properties

Version 4

Match the name to the definition.

(1) ☐ distributive property

(2) ☐ reflexive property

(3) ☐ commutative property of addition

(4) ☐ associative property of multiplication

(5) ☐ multiplicative identity

(6) ☐ multiplicative property of equality

(7) ☐ additive property of equality

(8) ☐ additive identity

(9) ☐ commutative property of multiplication

(10) ☐ transitive property of equality

(11) ☐ associative property of addition

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

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

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

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

(E) $ab = ba$

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

(G) if $a = b$ then $ax = bx$

(H) if $a = b$ then $a + x = b + x$

(I) $a = a$

(J) $1x = x$

(K) if $a = b$ and $b = c$ then $a = c$

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

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

(N) $x + 0 = x$

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

name | date | period

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Algebraic Properties

Version 5

Match the name to the definition.

(1) ☐ associative property of addition

(2) ☐ reflexive property

(3) ☐ additive property of equality

(4) ☐ commutative property of addition

(5) ☐ commutative property of multiplication

(6) ☐ associative property of multiplication

(7) ☐ multiplicative property of equality

(8) ☐ transitive property of equality

(9) ☐ additive identity

(10) ☐ multiplicative identity

(11) ☐ distributive property

(A) $ab = ba$

(B) $x + 0 = x$

(C) $a = a$

(D) $1x = x$

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

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

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

(H) if $a = b$ and $b = c$ then $a = c$

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

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

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

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

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

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

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

name | date | period

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Algebraic Properties

Version 6

Match the name to the definition.

(1) ☐ transitive property of equality

(2) ☐ distributive property

(3) ☐ associative property of addition

(4) ☐ reflexive property

(5) ☐ additive property of equality

(6) ☐ commutative property of addition

(7) ☐ multiplicative identity

(8) ☐ associative property of multiplication

(9) ☐ commutative property of multiplication

(10) ☐ additive identity

(11) ☐ multiplicative property of equality

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

(B) if $a = b$ then $a + x = b + x$

(C) $a + b = b + a$

(D) if $a = b$ and $b = c$ then $a = c$

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

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

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

(H) $x + 0 = x$

(I) $1x = x$

(J) $a = a$

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

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

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

(N) $ab = ba$

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

name | date | period

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Algebraic Properties

Version 7

Match the name to the definition.

(1) ☐ additive identity

(2) ☐ transitive property of equality

(3) ☐ reflexive property

(4) ☐ associative property of addition

(5) ☐ associative property of multiplication

(6) ☐ distributive property

(7) ☐ multiplicative identity

(8) ☐ commutative property of addition

(9) ☐ additive property of equality

(10) ☐ commutative property of multiplication

(11) ☐ multiplicative property of equality

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

(B) if $a = b$ then $ax = bx$

(C) $a + b = b + a$

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

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

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

(G) $ab = ba$

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

(I) $a = a$

(J) $x + 0 = x$

(K) $1x = x$

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

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

(N) if $a = b$ then $a + x = b + x$

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

name | date | period

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Algebraic Properties

Version 8

Match the name to the definition.

(1) ☐ distributive property

(2) ☐ multiplicative property of equality

(3) ☐ additive property of equality

(4) ☐ associative property of addition

(5) ☐ reflexive property

(6) ☐ multiplicative identity

(7) ☐ commutative property of addition

(8) ☐ additive identity

(9) ☐ transitive property of equality

(10) ☐ associative property of multiplication

(11) ☐ commutative property of multiplication

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

(B) $1x = x$

(C) if $a = b$ then $ax = bx$

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

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

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

(G) $x + 0 = x$

(H) $a = a$

(I) $ab = ba$

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

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

(L) if $a = b$ then $a + x = b + x$

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

(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 9

Match the name to the definition.

(1) ☐ commutative property of multiplication

(2) ☐ additive property of equality

(3) ☐ multiplicative property of equality

(4) ☐ reflexive property

(5) ☐ transitive property of equality

(6) ☐ distributive property

(7) ☐ multiplicative identity

(8) ☐ additive identity

(9) ☐ associative property of multiplication

(10) ☐ associative property of addition

(11) ☐ commutative property of addition

(A) $a = a$

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

(C) if $a = b$ then $ax = bx$

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

(E) $1x = x$

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

(G) $ab = ba$

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

(I) $a + b = b + a$

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

(K) if $a = b$ and $b = c$ then $a = c$

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

(M) $x + 0 = x$

(N) if $a = b$ then $a + x = b + x$

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

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Algebraic Properties

Version 10

Match the name to the definition.

(1) ☐ distributive property

(2) ☐ associative property of addition

(3) ☐ multiplicative identity

(4) ☐ reflexive property

(5) ☐ additive identity

(6) ☐ additive property of equality

(7) ☐ multiplicative property of equality

(8) ☐ commutative property of multiplication

(9) ☐ commutative property of addition

(10) ☐ transitive property of equality

(11) ☐ associative property of multiplication

(A) $a = a$

(B) if $a = b$ then $a + x = b + x$

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

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

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

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

(G) if $a = b$ and $b = c$ then $a = c$

(H) $x + 0 = x$

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

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

(K) if $a = b$ then $ax = bx$

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

(M) $ab = ba$

(N) $1x = x$

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

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Algebraic Properties

Version 11

Match the name to the definition.

(1) ☐ associative property of multiplication

(2) ☐ commutative property of addition

(3) ☐ associative property of addition

(4) ☐ additive property of equality

(5) ☐ multiplicative identity

(6) ☐ distributive property

(7) ☐ reflexive property

(8) ☐ transitive property of equality

(9) ☐ commutative property of multiplication

(10) ☐ multiplicative property of equality

(11) ☐ additive identity

(A) if $a = b$ then $a + x = b + x$

(B) $x + 0 = x$

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

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

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

(F) if $a = b$ then $ax = bx$

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

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

(I) $a + b = b + a$

(J) $ab = ba$

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

(L) $a = a$

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

(N) $1x = x$

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

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Algebraic Properties

Version 12

Match the name to the definition.

(1) ☐ transitive property of equality

(2) ☐ additive property of equality

(3) ☐ additive identity

(4) ☐ reflexive property

(5) ☐ associative property of multiplication

(6) ☐ multiplicative identity

(7) ☐ commutative property of addition

(8) ☐ commutative property of multiplication

(9) ☐ distributive property

(10) ☐ associative property of addition

(11) ☐ multiplicative property of equality

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

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

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

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

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

(F) $x + 0 = x$

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

(H) if $a = b$ then $ax = bx$

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

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

(K) if $a = b$ and $b = c$ then $a = c$

(L) $1x = x$

(M) $a = a$

(N) $ab = ba$

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

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Algebraic Properties

Version 13

Match the name to the definition.

(1) ☐ additive identity

(2) ☐ multiplicative property of equality

(3) ☐ multiplicative identity

(4) ☐ additive property of equality

(5) ☐ commutative property of multiplication

(6) ☐ associative property of addition

(7) ☐ commutative property of addition

(8) ☐ associative property of multiplication

(9) ☐ transitive property of equality

(10) ☐ reflexive property

(11) ☐ distributive property

(A) $a = a$

(B) if $a = b$ then $ax = bx$

(C) $x + 0 = x$

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

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

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

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

(H) if $a = b$ and $b = c$ then $a = c$

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

(J) $ab = ba$

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

(L) $1x = x$

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

(N) if $a = b$ then $a + x = b + x$

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

name | date | period

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Algebraic Properties

Version 14

Match the name to the definition.

(1) ☐ associative property of multiplication

(2) ☐ associative property of addition

(3) ☐ commutative property of multiplication

(4) ☐ distributive property

(5) ☐ reflexive property

(6) ☐ commutative property of addition

(7) ☐ additive identity

(8) ☐ multiplicative identity

(9) ☐ transitive property of equality

(10) ☐ multiplicative property of equality

(11) ☐ additive property of equality

(A) $a = a$

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

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

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

(E) $ab = ba$

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

(G) if $a = b$ and $b = c$ then $a = c$

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

(I) if $a = b$ then $ax = bx$

(J) $x + 0 = x$

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

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

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

(N) $1x = x$

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

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Algebraic Properties

Version 15

Match the name to the definition.

(1) ☐ distributive property

(2) ☐ reflexive property

(3) ☐ transitive property of equality

(4) ☐ additive identity

(5) ☐ associative property of multiplication

(6) ☐ commutative property of multiplication

(7) ☐ multiplicative property of equality

(8) ☐ commutative property of addition

(9) ☐ multiplicative identity

(10) ☐ associative property of addition

(11) ☐ additive property of equality

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

(B) $1x = x$

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

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

(E) $ab = ba$

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

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

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

(I) $x + 0 = x$

(J) if $a = b$ and $b = c$ then $a = c$

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

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

(M) $a = a$

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

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

name | date | period

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Algebraic Properties

Version 16

Match the name to the definition.

(1) ☐ associative property of addition

(2) ☐ commutative property of addition

(3) ☐ associative property of multiplication

(4) ☐ multiplicative property of equality

(5) ☐ commutative property of multiplication

(6) ☐ transitive property of equality

(7) ☐ additive identity

(8) ☐ reflexive property

(9) ☐ multiplicative identity

(10) ☐ distributive property

(11) ☐ additive property of equality

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

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

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

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

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

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

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

(H) if $a = b$ then $a + x = b + x$

(I) $ab = ba$

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

(K) $x + 0 = x$

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

(M) $1x = x$

(N) $a = a$

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

name | date | period

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Algebraic Properties

Version 17

Match the name to the definition.

(1) ☐ commutative property of addition

(2) ☐ transitive property of equality

(3) ☐ additive identity

(4) ☐ distributive property

(5) ☐ associative property of addition

(6) ☐ multiplicative property of equality

(7) ☐ multiplicative identity

(8) ☐ commutative property of multiplication

(9) ☐ additive property of equality

(10) ☐ associative property of multiplication

(11) ☐ reflexive property

(A) if $a = b$ then $a + x = b + x$

(B) if $a = b$ and $b = c$ then $a = c$

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

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

(E) $1x = x$

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

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

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

(I) $ab = ba$

(J) $a = a$

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

(L) $x + 0 = x$

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

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

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

name | date | period

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Algebraic Properties

Version 18

Match the name to the definition.

(1) ☐ multiplicative identity

(2) ☐ additive identity

(3) ☐ commutative property of multiplication

(4) ☐ commutative property of addition

(5) ☐ associative property of multiplication

(6) ☐ additive property of equality

(7) ☐ multiplicative property of equality

(8) ☐ associative property of addition

(9) ☐ distributive property

(10) ☐ transitive property of equality

(11) ☐ reflexive property

(A) $1x = x$

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

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

(D) if $a = b$ then $a + x = b + x$

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

(F) if $a = b$ then $ax = bx$

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

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

(I) $ab = ba$

(J) $a = a$

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

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

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

(N) $x + 0 = x$

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

name | date | period

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Algebraic Properties

Version 19

Match the name to the definition.

(1) ☐ multiplicative property of equality

(2) ☐ multiplicative identity

(3) ☐ reflexive property

(4) ☐ transitive property of equality

(5) ☐ commutative property of addition

(6) ☐ additive property of equality

(7) ☐ associative property of addition

(8) ☐ commutative property of multiplication

(9) ☐ associative property of multiplication

(10) ☐ additive identity

(11) ☐ distributive property

(A) if $a = b$ and $b = c$ then $a = c$

(B) $ab = ba$

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

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

(E) $1x = x$

(F) $a = a$

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

(H) if $a = b$ then $ax = bx$

(I) $x + 0 = x$

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

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

(L) if $a = b$ then $a + x = b + x$

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

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

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

name | date | period

Batch 4fb17000

Algebraic Properties

Version 20

Match the name to the definition.

(1) ☐ commutative property of addition

(2) ☐ reflexive property

(3) ☐ commutative property of multiplication

(4) ☐ distributive property

(5) ☐ additive identity

(6) ☐ additive property of equality

(7) ☐ associative property of multiplication

(8) ☐ associative property of addition

(9) ☐ multiplicative identity

(10) ☐ transitive property of equality

(11) ☐ multiplicative property of equality

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

(B) $ab = ba$

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

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

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

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

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

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

(I) $x + 0 = x$

(J) $1x = x$

(K) $a = a$

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

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

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

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

name | date | period

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Algebraic Properties

Version 21

Match the name to the definition.

(1) ☐ multiplicative identity

(2) ☐ multiplicative property of equality

(3) ☐ additive property of equality

(4) ☐ associative property of addition

(5) ☐ reflexive property

(6) ☐ commutative property of multiplication

(7) ☐ associative property of multiplication

(8) ☐ distributive property

(9) ☐ commutative property of addition

(10) ☐ additive identity

(11) ☐ transitive property of equality

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

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

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

(D) $1x = x$

(E) if $a = b$ then $ax = bx$

(F) $a + b = b + a$

(G) $x + 0 = x$

(H) if $a = b$ then $a + x = b + x$

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

(J) $ab = ba$

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

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

(M) $a = a$

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

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

name | date | period

Batch 4fb17000

Algebraic Properties

Version 22

Match the name to the definition.

(1) ☐ transitive property of equality

(2) ☐ additive property of equality

(3) ☐ multiplicative property of equality

(4) ☐ multiplicative identity

(5) ☐ additive identity

(6) ☐ commutative property of multiplication

(7) ☐ reflexive property

(8) ☐ associative property of addition

(9) ☐ commutative property of addition

(10) ☐ associative property of multiplication

(11) ☐ distributive property

(A) if $a = b$ and $b = c$ then $a = c$

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

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

(D) $ab = ba$

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

(F) $a + b = b + a$

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

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

(I) if $a = b$ then $ax = bx$

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

(K) $1x = x$

(L) $x + 0 = x$

(M) $a = a$

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

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

name | date | period

Batch 4fb17000

Algebraic Properties

Version 23

Match the name to the definition.

(1) ☐ additive property of equality

(2) ☐ additive identity

(3) ☐ commutative property of multiplication

(4) ☐ reflexive property

(5) ☐ multiplicative property of equality

(6) ☐ associative property of addition

(7) ☐ associative property of multiplication

(8) ☐ multiplicative identity

(9) ☐ transitive property of equality

(10) ☐ commutative property of addition

(11) ☐ distributive property

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

(B) if $a = b$ and $b = c$ then $a = c$

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

(D) $x + 0 = x$

(E) if $a = b$ then $ax = bx$

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

(G) $1x = x$

(H) $a + b = b + a$

(I) $ab = ba$

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

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

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

(M) $a = a$

(N) if $a = b$ then $a + x = b + x$

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

name | date | period

Batch 4fb17000

Algebraic Properties

Version 24

Match the name to the definition.

(1) ☐ distributive property

(2) ☐ commutative property of addition

(3) ☐ associative property of addition

(4) ☐ multiplicative identity

(5) ☐ additive identity

(6) ☐ multiplicative property of equality

(7) ☐ commutative property of multiplication

(8) ☐ additive property of equality

(9) ☐ associative property of multiplication

(10) ☐ reflexive property

(11) ☐ transitive property of equality

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

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

(C) $ab = ba$

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

(E) if $a = b$ then $ax = bx$

(F) if $a = b$ then $a + x = b + x$

(G) if $a = b$ and $b = c$ then $a = c$

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

(I) $1x = x$

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

(K) $a = a$

(L) $a + b = b + a$

(M) $x + 0 = x$

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

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

name | date | period

Batch 4fb17000

Algebraic Properties

Version 25

Match the name to the definition.

(1) ☐ multiplicative identity

(2) ☐ transitive property of equality

(3) ☐ associative property of addition

(4) ☐ associative property of multiplication

(5) ☐ distributive property

(6) ☐ reflexive property

(7) ☐ commutative property of addition

(8) ☐ multiplicative property of equality

(9) ☐ additive property of equality

(10) ☐ additive identity

(11) ☐ commutative property of multiplication

(A) $a + b = b + a$

(B) if $a = b$ and $b = c$ then $a = c$

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

(D) if $a = b$ then $a + x = b + x$

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

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

(G) $ab = ba$

(H) if $a = b$ then $ax = bx$

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

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

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

(L) $1x = x$

(M) $a = a$

(N) $x + 0 = x$

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

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

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

Ver 19	Ver 20	Ver 21	Ver 22	Ver 23	Ver 24	Ver 25
(1) H	(1) D	(1) D	(1) A	(1) N	(1) D	(1) L
(2) E	(2) K	(2) E	(2) G	(2) D	(2) L	(2) B
(3) F	(3) B	(3) H	(3) I	(3) I	(3) H	(3) J
(4) A	(4) G	(4) N	(4) K	(4) M	(4) I	(4) C
(5) J	(5) I	(5) M	(5) L	(5) E	(5) M	(5) F
(6) L	(6) C	(6) J	(6) D	(6) F	(6) E	(6) M
(7) D	(7) L	(7) K	(7) M	(7) J	(7) C	(7) A
(8) B	(8) N	(8) C	(8) B	(8) G	(8) F	(8) H
(9) K	(9) J	(9) F	(9) F	(9) B	(9) B	(9) D
(10) I	(10) E	(10) G	(10) N	(10) H	(10) K	(10) N
(11) M	(11) M	(11) I	(11) H	(11) C	(11) G	(11) G