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6950115536 6199646.7045455 10199558.948718 18435279.560976 169596944525 29999167562 23955376.432099 86837227.25 45610792993 83401130.458333 128265235.625 27622566300

Binomische Formeln aufgaben klasse 8 gymnasium pdf de 4 pdf online

Binomische Formel Station 6

1.) $(2x - 5)^2 =$
 $(5 - 2x)^2 =$
 $(1 - 5x)^2 =$
 $(2x - 0,5)(2x + 0,5) =$
 $(-0,5x + 1)^2 =$
 $(-0,5x - 1)^2 =$
 $(0,5x - 2)(0,5x - 2) =$
 $(-x - 0,5)^2 =$

2.) $(9x + 15y)(5y - 19x) =$
 $(4x + 1,5y)^2 =$
 $(-0,5x - 6y)^2 =$
 $3(x - 2)^2 =$
 $-x(x + 1)^2 =$
 $2x(2 - x)^2 =$
 $(3x - 2y)^2 =$
 $(0,3x - 1,5y)^2 =$

3.) $(x - 2) + (x + 5) = 2x + 6x + 29$
 $(2x - 3)(2x + 3x) = (3x - 4x) - 5x + 24x - 25x$
 $(3x - 2) + (4x + 5) = 25x + 28x + 29$
 $(3,5x + 3x) - (2,5x - 2x) = 6x + 3x + 8x$
 $(2x + 3) + (3x - 2) = 5x + 1x + 6x$
 $(2x - 3) + (2x + 4x) = 12x$
 $(x + 3) - (x - 4) - (x + 2) = x + 10x - 29$
 $(x + 7) + (x + 6) - (x - 12) = x + 10x - 59$
 $(2x + 1) + (3x - 2) - (4x + 5) = -x - 20$
 $(3x - 5) + (3x - 3) - (4x - 1) = -2x + 8x - 20$
 $15x + (2x + 4) + (3x - 7) = 20x + 36x + 33$
 $3x + [(2x - 6)(2x + 6) - (2x - 6)] = 3x + 24x - 72$



Gut gemacht!

7. Faktorisiere mit Hilfe einer Binomischen Formel: Klammere zunächst einen gemeinsamen Faktor aus.

a) $8x^2 - 98y^2 =$
 $= 2(4x^2 - 49y^2) =$
 $= 2(2x + 7y)(2x - 7y) =$

b) $810a^2 - 360ab + 40b^2 =$
 $= 9(9a^2 - 36ab + 4b^2) =$
 $= 9(7a + 2b)^2 =$

c) $980x^2 - 320y^2 =$
 $= 20(49x^2 - 16y^2) =$
 $= 20(7x + 4y)(7x - 4y) =$

d) $8x^2 + 24ab + 18b^2 =$
 $= 2(4x^2 + 12ab + 9b^2) =$
 $= 2(2x + 3b)^2 =$

e) $2x^2 - 4xy + 2y^2 =$
 $= 2(x^2 - 2xy + y^2) =$
 $= 2(x + y)^2 =$

f) $108x^2 + 252x + 147z^2 =$
 $= 3(36x^2 + 84x + 49z^2) =$
 $= 3(6x + 7z)^2 =$

8. Faktorisiere.

a) $a^2 + 8a + 15 =$
 $= (a + 3)(a + 5) =$

b) $y^2 + 5y + 4 =$
 $= (y + 4)(y + 1) =$

c) $x^2 + 7x + 6 =$
 $= (x + 1)(x + 6) =$

d) $a^2 + 2a - 8 =$
 $= (a + 4)(a - 2) =$

e) $p^2 + 6p - 16 =$
 $= (p + 8)(p - 2) =$

f) $y^2 - 5y - 36 =$
 $= (y + 9)(y - 4) =$

Faktorisieren - binomische Formeln Lösungen 4

1. Faktorisiere.

a) $b^2 - 2b - 24 =$
 $= (b + 4)(b - 6) =$

b) $q^2 - 8q - 9 =$
 $= (q + 1)(q - 9) =$

c) $x^2 - 11x - 12 =$
 $= (x + 1)(x - 12) =$

d) $m^2 + 5mn - 24n^2 =$
 $= (m + 8n)(m - 3n) =$

e) $9x^2 - 10xy + y^2 =$
 $= (9x - y)(x - y) =$

f) $14a^2 - 9ab + b^2 =$
 $= (7a - b)(2a - b) =$

Zerlege die folgenden Summen in Faktoren. Überprüfe, ob eine der drei Binomischen Formeln Anwendung findet.

2. a) $8a - 12b =$
 $= 4(2a - 3b) =$

b) $15m - 25s =$
 $= 5(3m - 5s) =$

c) $24u + 8v =$
 $= 8(3u + v) =$

d) $22x - 11 =$
 $= 11(2x - 1) =$

e) $ab - ac =$
 $= a(b - c) =$

f) $bx - by =$
 $= b(x - y) =$

g) $pq + qr =$
 $= q(p + r) =$

h) $xy + y^2 =$
 $= y(x + y) =$

3. a) $15ab + 25a =$
 $= 5a(3b + 5) =$

b) $18mn - 24n =$
 $= 6n(3m - 4) =$

c) $27pq + 36p =$
 $= 9p(3q + 4) =$

d) $8yz - 16z =$
 $= 8z(y - 2) =$

e) $21x^2 - 24a =$
 $= 3a(7x - 8) =$

f) $45x^2 - 36x =$
 $= 9x(5x - 4) =$

g) $20y + 28y^2 =$
 $= 4y(5 + 7y) =$

h) $12z^2 - 18z =$
 $= 6z(2x - 3) =$

4. a) $9a^2b^2 - 6a^2b + 15ab^2 =$
 $= 3ab(3ab - 2a + 5b) =$

b) $24pq^2 + 12p^2q - 4p^2q^2 =$
 $= 4pq(6q + 3p - pq) =$

c) $14xy^2 - 21x^2y - 4p^2q^2 =$
 $= 7xy(2y - 3x + 1) =$

d) $a(p - q) + b(p + q) =$
 $= (a + b)(p + q) =$

e) $p(a - b) - q(a - b) =$
 $= (p - q)(a - b) =$

f) $m(x - y) - n(x + y) =$
 $= (m - n)(x - y) =$

5. a) $a^2 - 25 =$
 $= (a - 5)(a + 5) =$

b) $a^2 + 10a + 25 =$
 $= (a + 5)^2 =$

c) $p^2 - 12p + 36 =$
 $= (p - 6)^2 =$

d) $4 - x^2 =$
 $= (2 - x)(2 + x) =$

Binomische Formeln 5

1. Schreibe die folgenden Terme in Klammerform:

$25x^2 + 20x + 4 =$

$9a^2 - 6ab + b^2 =$

$a^4 - b^{10} =$

$x^2 + 14x + 49 =$

$36a^2b^2 + 12ab + 1 =$

$4a^2 + 4ab + b^2 =$

$a^2 - 4x^2 =$

$25b^2 + 10b + 1 =$

$49a^2 - 112ap + 64p^2 =$

$x^6 - 9 =$

$121z^2 - 66yz + 9y^2 =$

$q^2r^2 + 2qrs + s^2 =$

2. Binome: vorwärts / rückwärts

$(a - d)^2 =$

$(7x + 3,5y)^2 =$

$(1,5a + 0,4b)(1,5a - 0,4b) =$

$49a^2 + 14a + 1 = (\underline{\quad} + \underline{\quad})^2 =$

$(a + \underline{\quad})^2 = a^2 + \underline{\quad} + 64 =$

$4x^2 - 68xy + \underline{\quad} = (\underline{\quad} - \underline{\quad})^2 =$

3. Wende die binomische Formeln an und fasse falls möglich zusammen.

$(9g - 12h)^2 =$

$(a^{\frac{1}{4}} - 8b)^2 =$

$(1,7x - 2y)(1,7x + 2y) =$

4. Faktorisiere mit Hilfe der binomischen Formeln

$256k^2 - 400g^2 =$

$2ab + a^2 + b^2 =$

$25a^2 - 50a + 25 =$

$2c^2 - 32 =$

$z^3 - z =$

$9a^2 + 6a + 1 =$

$7a^2 + 28ab + 28b^2 =$

$32x^4 + 48x^2y + 18y^2 =$

5. Ergänze zunächst so, dass Du eine binomische Formel anwenden kannst. Wandle anschließend in ein Produkt um

$\underline{\quad} - 32a + 64 =$

$\frac{1}{4}a^2x^2 + 2axy + \underline{\quad} =$

6. Multipliziere die folgenden Klammern aus und vereinfache, wenn es möglich ist.

$\left(\frac{1}{2}x^2y^3 - \frac{1}{4}x^3y^2\right)\left(\frac{1}{2}xy + \frac{3}{8}x^2y^2\right) + 4x^2y\left(\frac{1}{2}xy^3 - \frac{3}{4}x^2y^4 + 2x^2y^2 - \frac{1}{4}x^3y^3\right)$

$\left(\frac{2}{3}u - \frac{1}{6}v\right)\left(\frac{5}{6}u + \frac{3}{3}v\right) - \left(\frac{1}{3}u - \frac{2}{3}v\right)\left(\frac{1}{2}u + \frac{2}{3}v\right) + v\left(\frac{1}{2}u - v\right)2u$

$(13x + 4y)^2 \cdot (25x + 6y)^2 \cdot (16y - 3x)^2 \cdot (14x + 8y)^2$



Vereinfache die folgenden Terme soweit wie möglich! Gib jeweils die Definitionsmenge an!

a) $\frac{24y}{36y} =$

$\frac{4xy}{16x} =$

b) $\frac{2xy}{4xz} =$

$\frac{3x^2}{4x^2z} =$

c) $\frac{3y+9}{4y+12} =$

$\frac{y+3}{4y+12} =$

d) $\frac{y+3}{12y^2+36y} =$

$\frac{y+3}{12y^2+36y} =$

e) $\frac{4y+16}{4x-12} =$

$\frac{x^2+16x+64}{x^2+16x+64} =$

f) $\frac{x^2+1$

Delaware's capital has its share of museums and attractions. Binome: vorwärts / rückwärts ($a - d$)² = $a^2 - 2ad + d^2$ ($7x + 3, 5y$)² = $49x^2 + 49xy + 12,25y^2$ ($1,5a + 0,4b$)² = $2,25a^2 - 0,16b^2$ $49a^2 + 14a + 1$ = $(7a + 1)^2$ ($a + 8$)² = $a^2 + 16a + 64$ $4x^2 - 68xy + 289y^2$ = $(2x - 17y)^2$. Delaware became the "first state" on December 7, 1787, when its delegates assembled at Dover's Golden Fleece Tavern to ratify the Constitution of the United States, the first state to do so. Today, Dover continues to be a hub of state government and industry. Ergänze zunächst so, dass Du eine binomische Formel anwenden kannst. Löse die Klammern auf ($r + s$)² = $r^2 + 2rs + s^2$ ($3a + b$)² = $9a^2 + 6ab + b^2$ ($9 + 2z$)² = $81 + 36z + 4z^2$ ($5a - 7$)² = $25a^2 - 70a + 49$ ($8x - 1$)² = $64x^2 - 16x + 1$ ($5x - 2y$)² = $25x^2 - 20xy + 4y^2$ ($3x + 2$) ($3x - 2$) = $9x^2 - 4$ ($4a - 5$) ($4a + 5$) = $16a^2 - 25$ ($5y - 1$) ($5y + 1$) = $25y^2 - 1$ ($34a + 12$)² = $916a^2 + 144 + 144$. Klammere erst den gemeinsamen Faktor aus und bilde dann das Binom $20x^2 - 20x + 5$ = $50a^2 - 200a + 200$ = $18a^2 - 6ab + 0,5b^2$ = $128x^2 - 98y^2$ = 3 . Lös die Klammern auf und fasse danach so weit wie möglich zusammen: $(2y + 7x)(7y - 5x)2$ = $(1,2x - 2y)2$ = $(x^2 - 2a)(x^2 + 2a)$ = $(2x - 5)2 - (3x + 1)(2 - x) = 5$. Wandle anschließend in ein Produkt um: $-32a + 64 = 14a^2x^2 + 2axy + 49 = (a + 2x)(a - 2x + 5)(b + 1)^2 = 57b^2 - 1m^2$ ($y - 35$)² = $y^2 - 1225$ ($x + 18$)² = $3x^2 + 3(x + 3)(x + 3)$ Lösungen 4 1. $4x^2 + 4rs - s^2$ = $(2x + 1)^2$ ($9x^2 - 36v^2 + 36v^2 + 4x^2 + 4$) = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 14x + 49 = (x + 7)^2$ $36a^2 + 12ab + 1 = (6ab + 112)4a^2 + 4ab + b^2 = (2a + b)^2 a^2 - 4x^2 = (a + 2x)(a - 2x + 5)(b + 1)^2 = 57b^2 - 1m^2$ ($y - 35$)² = $y^2 - 1225$ ($x + 18$)² = $3x^2 + 3(x + 3)(x + 3)$ Lösungen 4 1. $4x^2 + 4rs - s^2$ = $(2x + 1)^2$ ($9x^2 - 36v^2 + 36v^2 + 4x^2 + 4$) = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 20,25$ ($x + 4,5$)² = $4cd + d^2 = (x^2 - 4c^2 - 4cd + d^2 = (2c - d)^2$ 6. Löse die Klammern auf unter Verwendung der Formel: $(a + b)^2 = q^2 - 361$ ($b - 26$)² = $b^2 - 676$ ($t - 23$)² = $t^2 - 529$ ($2x + 5)(24 + m) = 576 - m^2$ ($y - 35$)² = $y^2 - 1225$ ($x + 18$)² = $3x^2 + 3(x + 3)(x + 3)$ Lösungen 4 1. $4x^2 + 4rs - s^2$ = $(2x + 1)^2$ ($9x^2 - 36v^2 + 36v^2 + 4x^2 + 4$) = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 20,25$ ($x + 4,5$)² = $4cd + d^2 = (x^2 - 4c^2 - 4cd + d^2 = (2c - d)^2$ 6. Löse die Klammern auf unter Verwendung der Formel: $(a + b)^2 = q^2 - 361$ ($b - 26$)² = $b^2 - 676$ ($t - 23$)² = $t^2 - 529$

($1,2x + 36x^2y^2 - 4x^2y^2(1,2xy^3 - 34x^2y^2 + 2x^2y^2 - 14xy^3)(3)(23x^2 + 23y^2 + 1)(256a^2 + 313y^2 - (13u - 23v)(13u - 23v) + (12u - v)2u(13u + 4y)^2$) 2 www.Klassenarbeiten.de Seite 6 Lösungen 1. 1. Zerlege die folgenden Terme mittels binomischer Formeln in Faktoren! $25x^2 + 20x + 4$ = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 20,25$ ($x + 4,5$)² = $4cd + d^2 = (x^2 - 4c^2 - 4cd + d^2 = (2c - d)^2$ 6. Löse die Klammern auf unter Verwendung der Formel: $(a + b)^2 = q^2 - 361$ ($b - 26$)² = $b^2 - 676$ ($t - 23$)² = $t^2 - 529$ ($2x + 5)(24 + m) = 576 - m^2$ ($y - 35$)² = $y^2 - 1225$ ($x + 18$)² = $3x^2 + 3(x + 3)(x + 3)$ Lösungen 4 1. $4x^2 + 4rs - s^2$ = $(2x + 1)^2$ ($9x^2 - 36v^2 + 36v^2 + 4x^2 + 4$) = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 20,25$ ($x + 4,5$)² = $4cd + d^2 = (x^2 - 4c^2 - 4cd + d^2 = (2c - d)^2$ 6. 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Löse die Klammern auf unter Verwendung der Formel: $(a + b)^2 = q^2 - 361$ ($b - 26$)² = $b^2 - 676$ ($t - 23$)² = $t^2 - 529$ ($2x + 5)(24 + m) = 576 - m^2$ ($y - 35$)² = $y^2 - 1225$ ($x + 18$)² = $3x^2 + 3(x + 3)(x + 3)$ Lösungen 4 1. $4x^2 + 4rs - s^2$ = $(2x + 1)^2$ ($9x^2 - 36v^2 + 36v^2 + 4x^2 + 4$) = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 20,25$ ($x + 4,5$)² = $4cd + d^2 = (x^2 - 4c^2 - 4cd + d^2 = (2c - d)^2$ 6. Löse die Klammern auf unter Verwendung der Formel: $(a + b)^2 = q^2 - 361$ ($b - 26$)² = $b^2 - 676$ ($t - 23$)² = $t^2 - 529$ ($2x + 5)(24 + m) = 576 - m^2$ ($y - 35$)² = $y^2 - 1225$ ($x + 18$)² = $3x^2 + 3(x + 3)(x + 3)$ Lösungen 4 1. $4x^2 + 4rs - s^2$ = $(2x + 1)^2$ ($9x^2 - 36v^2 + 36v^2 + 4x^2 + 4$) = $(5x + 2)(2)9a^2 - 6ab + b^2$ = $(3a - b)^2 a^2 + b^2 = (a^2 - b^2)(a^2 + b^2)$ $x^2 + 20,25$ ($x + 4,5$)² = $4cd + d^2 = (x^2 - 4c^2 - 4cd + d^2 = (2c - d)^2$ 6. 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