

Aufgaben zu Gleichungssystemen – Versteckt 3,1

Bestimmen Sie die Unbekannten.

<u>Aufgaben</u>	<u>Lösungen</u>
$-5(-2r - 3z) + 8(-3r - 9x) + 6(4z - 9x) + 5 = 142$ $-3(-3r - 7z) + 4(7r - 8x) - 8(2z - 6x) - 2 = 61$ $-(8r - 4z) - 4(-8r - 4x) - 7(-3z - 6x) + 3 = 18$ $3(7w + 8x) + 5(10w + 8k) + 10(5x - 6k) - 7 = -324$ $-10(-w + 6x) - (-10w - 5k) + 8(-9x + 4k) + 8 = 1312$ $-4(-10w - 7x) + 7(-7w + 3k) + 3(4x + k) + 6 = -263$ $5(-6e + g) + 3(4e + 10y) - 8(10g - 9y) - 6 = -33$ $-10(10e - 2g) - 7(-5e - 2y) - 7(-9g + y) - 5 = 944$ $10(7e + 8g) - 9(9e - 7y) + 7(-9g + 2y) - 3 = 324$ $4(-6n + 8j) - 3(4n - 8b) - 4(-8j - 3b) - 5 = -573$ $-10(-2n + j) - 4(-5n + 4b) + 4(9j + b) - 4 = 334$ $8(-10n - 2j) - 8(8n + 9b) - 5(9j - 6b) - 3 = -656$ $7(4b - k) - (-10b + 4h) + 4(5k - h) + 5 = 262$ $-5(2b - 10k) + 2(-9b - 8h) - 5(-2k + 7h) + 6 = -316$ $-3(-10b - 5k) - 7(9b - 4h) + 6(8k - 3h) + 7 = 25$ $5(2k - 5h) + 3(3k + 2x) - 9(-7h - 8x) + 2 = 449$ $-2(8k + 2h) + 4(-2k - x) + 10(-10h + 9x) - 4 = 410$ $10(3k - 4h) - 7(4k + 10x) + 9(6h - 9x) + 10 = -749$ $-3(5a - 5h) - 8(-a + e) + 10(10h - 10e) + 9 = -402$ $3(-9a + 9h) + 7(-8a + 6e) - 6(2h - 10e) - 5 = 414$ $-9(-10a - 5h) + 3(-9a - 4e) + 10(-2h + 4e) + 7 = -882$ $3(-9e - 4h) + 3(-4e + 5g) - 6(10h - 6g) + 10 = -284$ $-9(-e + 5h) - 9(7e - 6g) - 2(3h - 10g) + 2 = -234$ $-2(5e + 6h) - 4(-2e + 5g) + 8(-7h - g) - 6 = -64$ $5(3u + 3g) + 6(5u - q) - 9(-2g + 2q) - 2 = 436$ $8(9u + 5g) - 4(-5u - 5q) - 10(-10g + 9q) + 5 = 1637$ $4(3u - 7g) + (8u + 10q) - 8(-4g - 2q) - 9 = -57$ $4(-9v - d) - 10(-6v + 5f) + 6(7d - 7f) - 9 = 727$ $-7(-3v - 9d) - 3(-9v - 2f) + 4(2d + f) + 1 = -283$ $4(3v - 10d) + 9(2v - 5f) + 8(2d + 2f) - 1 = 2$	

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$-5(-2r - 3z) + 8(-3r - 9x) + 6(4z - 9x) + 5 = 142$ $-3(-3r - 7z) + 4(7r - 8x) - 8(2z - 6x) - 2 = 61$ $-(8r - 4z) - 4(-8r - 4x) - 7(-3z - 6x) + 3 = 18$	$r = 2; z = 1; x = -1;$
$3(7w + 8x) + 5(10w + 8k) + 10(5x - 6k) - 7 = -324$ $-10(-w + 6x) - (-10w - 5k) + 8(-9x + 4k) + 8 = 1312$ $-4(-10w - 7x) + 7(-7w + 3k) + 3(4x + k) + 6 = -263$	$w = 5; x = -8; k = 4;$
$5(-6e + g) + 3(4e + 10y) - 8(10g - 9y) - 6 = -33$ $-10(10e - 2g) - 7(-5e - 2y) - 7(-9g + y) - 5 = 944$ $10(7e + 8g) - 9(9e - 7y) + 7(-9g + 2y) - 3 = 324$	$e = -8; g = 5; y = 2;$
$4(-6n + 8j) - 3(4n - 8b) - 4(-8j - 3b) - 5 = -573$ $-10(-2n + j) - 4(-5n + 4b) + 4(9j + b) - 4 = 334$ $8(-10n - 2j) - 8(8n + 9b) - 5(9j - 6b) - 3 = -656$	$n = 7; j = -1; b = -7;$
$7(4b - k) - (-10b + 4h) + 4(5k - h) + 5 = 262$ $-5(2b - 10k) + 2(-9b - 8h) - 5(-2k + 7h) + 6 = -316$ $-3(-10b - 5k) - 7(9b - 4h) + 6(8k - 3h) + 7 = 25$	$b = 7; k = 3; h = 6;$
$5(2k - 5h) + 3(3k + 2x) - 9(-7h - 8x) + 2 = 449$ $-2(8k + 2h) + 4(-2k - x) + 10(-10h + 9x) - 4 = 410$ $10(3k - 4h) - 7(4k + 10x) + 9(6h - 9x) + 10 = -749$	$k = 5; h = -1; x = 5;$
$-3(5a - 5h) - 8(-a + e) + 10(10h - 10e) + 9 = -402$ $3(-9a + 9h) + 7(-8a + 6e) - 6(2h - 10e) - 5 = 414$ $-9(-10a - 5h) + 3(-9a - 4e) + 10(-2h + 4e) + 7 = -882$	$a = -10; h = -7; e = -3;$
$3(-9e - 4h) + 3(-4e + 5g) - 6(10h - 6g) + 10 = -284$ $-9(-e + 5h) - 9(7e - 6g) - 2(3h - 10g) + 2 = -234$ $-2(5e + 6h) - 4(-2e + 5g) + 8(-7h - g) - 6 = -64$	$e = -9; h = 4; g = -7;$
$5(3u + 3g) + 6(5u - q) - 9(-2g + 2q) - 2 = 436$ $8(9u + 5g) - 4(-5u - 5q) - 10(-10g + 9q) + 5 = 1637$ $4(3u - 7g) + (8u + 10q) - 8(-4g - 2q) - 9 = -57$	$u = 1; g = 9; q = -4;$
$4(-9v - d) - 10(-6v + 5f) + 6(7d - 7f) - 9 = 727$ $-7(-3v - 9d) - 3(-9v - 2f) + 4(2d + f) + 1 = -283$ $4(3v - 10d) + 9(2v - 5f) + 8(2d + 2f) - 1 = 2$	$v = -7; d = 2; f = -9;$