Klassenarbeit
Mathematik 9. Klasse
Klammerrechnung

Block 1:

1.) 16a – (3b + 8c – 5a) – (b – 3c)= _____

2.) 3a – 4b – (-5a +7b) + (-9a – 10b) = _____

3.) – ab + 7a – 13 – (- 4ab + 8a – 25) + (- 8ab + a – 21) = _____

4.) 24a – [(13a- 8b + 2c) – (9a + 12b – 3c)] = _____

5.) 37a + [22b – (17c + 12b – 11a) + 25c] – [18a – (7b – 3c)]= _____

6.) 4xy – 8xz – {2yz – [3xy – (5xz + 6yz) + 7yz] – 2xy} = _____

7.) a – {[(b – 3ab) – (a + 3ab)] – (6a – 3b)} = _____

Block 2:

1.) (a + b) • (4x – 5y) – (a – b) • (5x + 3y) = _____

2.) (2m + 4n) • (5a + 6b – 8c) + (3m + 4n) • (9a – 6b + 7c) = _____

3.) (3a – 5b) • (6x – 7y + 9z) – (5x – 8y + 8z) • (4a – 5b) = _____

4.) - 6.) nur ausklammern

4.) (4a – 2b) • (x + y) – (3a + 4b) • (x + y) = _____

5.) (5m + 2n) • (x – y) + (3m + 2n) • (x – y) = _____

6.) (15xy + 12bx) • (a – c) – (5bx + 10xy) • (a – c) = _____

Je Aufgabe = 3 Punkte
Notenschlüssel:
39 – 36 = 1
35 – 31 = 2
30 – 25 = 3
24 – 18 = 4
17 – 10 = 5
09 – 00 = 6

Viel Erfolg!

LÖSUNG

Block 1:

1.) 16a – (3b + 8c – 5a) – (b – 3c)= 21a – 4b – 5c

2.) 3a – 4b – (-5a +7b) + (-9a – 10b) = -1a – 21b

3.) – ab + 7a – 13 – (- 4ab + 8a – 25) + (- 8ab + a – 21) = -5ab - 9

4.) 24a – [(13a- 8b + 2c) – (9a + 12b – 3c)] = 20a + 20b – 5c

5.) 37a + [22b – (17c + 12b – 11a) + 25c] – [18a – (7b – 3c)]= 30a + 17b + 5c

6.) 4xy – 8xz – {2yz – [3xy – (5xz + 6yz) + 7yz] – 2xy} = 9xy – 13xz – 1 yz

7.) a – {[(b – 3ab) – (a + 3ab)] – (6a – 3b)} = 8a – 4b + 6ab

Block 2:

1.) (a + b) • (4x – 5y) – (a – b) • (5x + 3y)
= -1ax – 8ay + 9 bx – 2by

2.) (2m + 4n) • (5a + 6b – 8c) + (3m + 4n) • (9a – 6b + 7c)
= 37 am – 6bm + 5cm + 56 an – 4cn

3.) (3a – 5b) • (6x – 7y + 9z) – (5x – 8y + 8z) • (4a – 5b)
= -2ax + 11 ay – 5az – 5bx – 5by – 5bz

4.) - 6.) nur ausklammern

4.) (4a – 2b) • (x + y) – (3a + 4b) • (x + y) = (x + y) • (1a – 6b)

5.) (5m + 2n) • (x – y) + (3m + 2n) • (x – y) = (x –y) • (8m + 4n)

6.) (15xy + 12bx) • (a – c) – (5bx + 10xy) • (a – c) = (a –c) • (5xy + 7bx)

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