

Distributive property of multiplication II

Homework

№1. Simplify:

1. $(-a - b + c) - (a - c - b) - (a + c - b);$
2. $-(3x + 2y - 5z) - (7x + 4z) + (2x + y + 5z);$
3. $(x^4 + 3x^3 - x^2 + x - 1) - (x^3 + x^2 - x + 1);$
4. $(a - 2b - c) - 2b - (3a - 3c) + c - (b - a).$

№2. Simplify:

1. $(x - 2)(x - 11) - 2x(4 - 3x);$
2. $(a + 6)(a - 3) + (a - 4)(a + 5);$
3. $(y - 8)(2y - 1) - (3y + 1)(5y - 2);$
4. $(3m - 4n)(3m + 5n) - (4.5m - n)(2m + 4n);$
5. $(x^2 + 2y)(x^3 + 7y) - 6x^3(x^2 - 3y).$

№3. Factor out the common factor:

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|--------------------------------|---|
| 1. $a(m + n) - b(m + n);$ | 4. $5x(b - c) - (c - b);$ |
| 2. $zc(2a - 5b) + y(2a - 5b);$ | 5. $(a - 4)^2 - 5(a - 4);$ |
| 3. $2m(a - 6) + 3n(6 - a);$ | 6. $(x - 5)(2y + 4) - (x - 5)(4y + 1).$ |