

Special products

Homework

№1. Simplify an expression:

1. $-(-6u - 3v)(6u - 3v);$

2. $(-s + 10t)(-s - 10t);$

3. $(2n - 2)(2n + 2) + (1 - a)(1 + a);$

4. $(5m + 2n)(5m - 2n) - (11 + 7m).$

№2. Factor the expressions:

1. $(50 - x)^2 - 49;$

2. $(3x + 2)^2 - (x - 5)^2;$

3. $a^2 - (a + 4)^2;$

4. $(2a + b - c)^2 - (2a + b + c)^2.$

№3. Simplify an expression:

1. $(4n - 4)^2;$

2. $(6a - b)^2 - (4a + b)^2;$

3. $x(3x + 2)^2 - 2x(9 + x)^2;$

4. $(x - 1)^2 - (x + 4)(x - 4).$

№4. Write the trinomial as a square of a binomial:

1. $x^2 + 12x + 36;$

2. $16a^2 - 40a + 25;$

3. $49m^2 + 56mn + 16n^2;$

4. $36a^2 + 60ab + 25b^2;$

5. $36x^2 + 49y^2 + 84xy;$

6. $100x^4 + 25x^2y^2 + y^4.$