

РАЦИОНАЛНИ АЛГЕБАРСКИ ИЗРАЗИ
(други део)

1. Упрости изразе:

1) $2x + 3x =$

6) $4x + 5x =$

2) $2x \cdot 3x =$

7) $4x \cdot 5x =$

3) $-3x \cdot 2x^2y =$

8) $-5x^4y \cdot 3y =$

4) $-2ab^3 \cdot 5a^3b =$

9) $-4a^4b^2 \cdot 7a^5b =$

5) $(2a^2b^3)^4 =$

10) $(3a^3b^2)^3 =$

2. Упрости изразе:

1) $2 \cdot (x - 3) =$

2) $-4 \cdot (x - 2) =$

3) $2x \cdot (x^2 + 5x - 3) =$

4) $-3x^2 \cdot (x + 2) =$

5) $5x^4 \cdot (x^2 - 3x + 1) =$

6) $(x - 3) \cdot (x - 2) =$

7) $(x + 4) \cdot (x - 2) =$

8) $(x - 3) \cdot (x + 5) =$

9) $(x + 3) \cdot (x + 2) =$

10) $(x - 4) \cdot (x - 1) =$

11) $(a - 3b^2) \cdot (4 - 5ab) =$

12) $(xy + 3) \cdot (x - y) =$

$$13) (a^2b - 4) \cdot (a + b) =$$

$$14) (x + 3y) \cdot (xy^3 + 2) =$$

3. Упрости изразе:

$$1) a \cdot (a - 1) - a \cdot (a - 2) =$$

$$2) 3x \cdot (x - 1) - 2 \cdot (1 + x^2) =$$

$$3) (4x - 3) \cdot (3x + 4) - 6x \cdot (1 + 2x) =$$

$$4) 2a \cdot (3a^2 + 4a + 5) + (2a^2 - 1) \cdot (-3a) =$$

$$5) (x - 4) \cdot (x + 3) - (x - 2) \cdot (x + 1) =$$

$$6) (2x - 1) \cdot (4x + 3) - (1 + 2x) \cdot (4x - 2) =$$

4. Упрости изразе:

$$1) (x - 2) \cdot (x - 5) - 2 \cdot (x - 1) \cdot (x + 4) =$$

$$2) x \cdot (x - 5) + x \cdot (7x - 3) - 4 \cdot (2x - 1) \cdot (x - 3) =$$

$$3) (3x - 7) \cdot (2x + 1) - 2x \cdot (2x^2 - 1) - x \cdot (x + 2) \cdot (5 - 4x) =$$

$$4) (4x - 7) \cdot (3x - 5) - x \cdot (12x - 11) \cdot (x - 1) =$$

$$5) 5(3x^2 - 2) + 3 \cdot (5x - 1) \cdot (-x + 2) =$$

5. Реши једначине:

1) $3x - 2 \cdot (4x - 5) = 0;$

3) $3 \cdot (2x - 1) + 4x = 17;$

5) $6 \cdot (a + 1) - 3 \cdot (a + 2) = 1;$

2) $2 \cdot (x - 3) - 4 = 2;$

4) $(x - 3) \cdot (x + 2) - x^2 = 0;$

6) $2 \cdot (z + 1) + 3 \cdot (z + 2) - 4 \cdot (z - 3) = 5;$

$$7) a^2 + 2a \cdot (a+3) - 3 \cdot (a+a^2) = 33;$$

$$8) (x-2) \cdot (x+3) - (x-5) \cdot (x+4) = 6;$$

$$9) x \cdot (x+1) + x \cdot (x-2) - (2x-3) \cdot (x+4) = 6.$$

$$10) (3x+5) \cdot (4x-9) - 4(x-1) \cdot (3x-4) = 2.$$