

290. 1) $(0, 2x + 0, 2y - z)(x - y)$; 3) $\left(\frac{1}{3}m - \frac{1}{3}n + \frac{1}{5}p\right)(60m + 12)$;

2) $(0, 3x - 0, 3y + z)(x + y)$; 4) $(0, 1a^2 - 0, 3a + 1)(3a^2 - 10)$.

291. 1) $(a - b)(a + b)(a - 3b)$; 3) $(x + 3)(2x - 1)(3x + 2)$;

2) $(a + b)(a - b)(a + 3b)$; 4) $(x - 2)(3x + 1)(4x - 3)$.

292. 1) $(5x - 1)(x + 3) - (x - 2)(5x - 4)$ ifodaning qiymati $x = 2\frac{1}{7}$ bo'lganda 49 ga tengligini ko'rsating;

2) $(a + 3)(9a - 8) - (2 + a)(9a - 1)$ ifodaning qiymati $a = -3,5$ bo'lganda -29 ga tengligini ko'rsating.

293. Ifodaning qiymatini hisoblang:

1) $\left(n + \frac{1}{2}\right)\left(n^2 - \frac{1}{2}n + \frac{1}{4}\right)$, bunda $n = -2\frac{1}{2}$;

2) $\left(n - \frac{1}{3}\right)\left(n^2 + \frac{1}{3}n + \frac{1}{9}\right)$, bunda $n = \frac{7}{3}$.

303. 1) $14a^5 : (7a^2)$; 3) $-0,2a^{10} : (-a^{10})$;
2) $(-42m^7) : (6m)$; 4) $(-2\frac{1}{3}a^{17}) : (-2a^{17})$.

304. 1) $\frac{1}{3}m^3n^2p^2 : \left(-\frac{2}{3}m^2n^2p^2\right)$; 3) $(28,9p^2q^2y^3) : (-1,7p^2y^3)$;
2) $\left(-1\frac{1}{2}a^4b^3c^2\right) : \left(-\frac{2}{3}a^3bc^2\right)$; 4) $-6a^3b^2c : (-2a^2bc)$.

305. 1) $20m^4n^3 : (-5m^2n^3)$; 3) $\left(-\frac{2}{5}a^4x^3y^2\right) : \left(-\frac{1}{2}a^3xy^2\right)$;
2) $-1,3a^3x^2y^3 : (16,9a^2xy)$; 4) $\left(-\frac{3}{4}a^5b^3c\right) : \left(-1\frac{1}{2}a^2b^2c\right)$.

306. Ifodani soddallashtiring:

1) $(4a^3b^2)^3 : (2a^2b)^2$; 3) $(-abc^2)^5 : (-a^2bc^3)^2$;
2) $(9x^2y)^3 : (3xy)^2$; 4) $(-x^2y^3z)^4 : (xyz)$.

311. Ifodani soddallashtiring:

$$1) (6a^3 - 3a^2) : a^2 + (12a^2 + 9a) : (3a);$$

$$2) (8x^3 - 4x^2) : (2x^2) - (4x^2 - 3x) : x;$$

$$3) (3x^3 - 2x^2y) : x^2 - (2xy^2 + x^2y) : \left(\frac{1}{3}xy\right);$$

$$4) (a^2b - 3ab^2) : \left(\frac{1}{2}ab\right) + (6b^3 - 5ab^2) : b^2.$$

312. Algebraik ifodaning qiymatini toping:

$$1) (15a^3 + 25a^2) : (5a) - 9a^4 : (3a^2), \text{ bunda } a = 7;$$

$$2) (18a^4 - 27a^3) : (9a^2) - 10a^3 : (5a), \text{ bunda } a = -8;$$

$$3) (3x^3 + 4x^2y) : x^2 - (10xy + 15y^2) : (5y), \text{ bunda } x = 2, y = -5;$$

$$4) (2xy^2 - 5y^3) : y^2 + (12xy + 6x^2) : (3x), \text{ bunda } x = -3, y = -12.$$

329. Bo‘lishni bajaring:

1) $(0,01a^4 - 0,2a^3 + 0,04a^2 + 0,002a) : (0,01a);$

2) $(-0,05x^5 - 0,08x^4 - 0,09x^3 + 0,01x^2) : (-0,01x^2);$

3) $\left(-4m^5n^2 - \frac{4}{9}m^4n^5 + \frac{2}{3}m^3n^6\right) : \left(\frac{2}{3}m^3n^2\right);$

4) $\left(\frac{3}{4}a^6x^3 + \frac{6}{5}a^3x^4 - \frac{9}{10}ax^5\right) : \left(\frac{3}{5}ax^3\right).$

1. Hisoblang: $\frac{3^3 \cdot 9^5}{81^3}$.

- A) 3; B) $\frac{1}{3}$; C) $\frac{1}{9}$; D) $\frac{1}{27}$; E) 9.

2. Hisoblang: $\frac{a^8(b^4)^4}{(b^2)^6 \cdot (a^2)^3 \cdot (ab)^2}$.

- A) a^2b^2 ; B) b^2 ; C) a^2 ; D) $\frac{1}{b^2}$; E) $\frac{a}{b}$.

3. Birhadning son qiymatini toping:

$\frac{1}{5}a^2b^3c$, bunda $a = -2$, $b = -1$, $c = 10$.

- A) $-\frac{4}{5}$; B) $\frac{4}{5}$; C) -8 ; D) 8 ; E) -40 .

4. Birhadni standart shaklda yozing: $2^4ab^2\left(-\frac{1}{2}\right)^3a^2b$

- A) $2aa^2b^2b$; B) $\frac{4}{3}a^3b^3$; C) $-\frac{4}{3}b^3a^3$;
D) $4a^3b^3$; E) $-2a^3b^3$.

5. Birhadlarni ko'paytiring: $\left(-\frac{7}{15}a^3b^2c^3\right)\left(\frac{9}{14}ab^2c\right)$.

A) $0,3a^3b^4c^4$; B) $-0,3(abc)^4$; C) $-\frac{9}{15}a^4b^2c^3b^2$;

D) $\frac{9}{15}a^4c^4b^3$; E) to'g'ri javob berilmagan.

6. Ko'phadni uning har bir hadini standart shaklga keltirib, soddalashtiring: $3b^2a5ab - 6b^24aba + ab4ab^2$.

A) $43a^3b^3$; B) $43a^2b^3$; C) $-5a^3b^2$;

D) $-5a^2b^3$; E) $5a^2b^3$.

7. Ko'phadlarning algebraik yig'indisini toping:

$$\left(0,5a + \frac{2}{3}b\right) - \left(\frac{7}{2}a - \frac{1}{3}b\right) + 2(a + b).$$

A) $a + 3b$; B) $-a + 3b$; C) $-a - 3b$; D) $a - 3b$;

E) $6a + 2\frac{1}{2}b$.

8. Ko'phadni birhadga ko'paytiring: $\left(4a - \frac{1}{3}x\right) \cdot (-3x)$.

A) $-12ax - 3x^2$; B) $3x^2 - 12ax$; C) $3x^2 + 12ax$;

D) $x^2 - 12ax$; E) $-x^2 + 12ax$.