

Анализа домашњег задатка

426. а) $2^3 \cdot 2^4 = 2^{3+4} = 2^7$

б) $3^4 \cdot 3^2 = 3^{4+2} = 3^6$

в) $5^4 \cdot 5^4 = 5^{4+4} = 5^8$

г) $7^2 \cdot 7^5 = 7^{2+5} = 7^7$

д) $\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^2 = \left(\frac{1}{3}\right)^{3+2} = \left(\frac{1}{3}\right)^5$

е) $\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^5 = \left(\frac{1}{2}\right)^{3+5} = \left(\frac{1}{2}\right)^8$

ж) $\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right)^5 = \left(\frac{2}{5}\right)^{10+5} = \left(\frac{2}{5}\right)^{15}$

429. а) $3^6 : 3^4 = 3^{6-4} = 3^2$

б) $5^5 : 5^2 = 5^{5-2} = 5^3$

в) $7^{10} : 7^3 = 7^{10-3} = 7^7$

г) $6^9 : 6 = 6^9 : 6^1 = 6^{9-1} = 6^8$

д) $\left(\frac{2}{5}\right)^3 : \left(\frac{2}{5}\right)^2 = \left(\frac{2}{5}\right)^{3-2} = \left(\frac{2}{5}\right)^1 = \left(\frac{2}{5}\right)$

е) $\left(\frac{1}{2}\right)^5 : \left(\frac{1}{2}\right)^5 = 1$

ж) $\left(1\frac{2}{3}\right)^7 : \left(1\frac{2}{3}\right)^4 = \left(1\frac{2}{3}\right)^{7-4} = \left(1\frac{2}{3}\right)^3$ (дељитеље броја самим собом)

Вежбање

427. г) $t^2 \cdot t = t^2 \cdot t^1 = t^{2+1} = t^3$

д) $b^3 \cdot b^5 \cdot b \cdot b^2 = b^{3+5+1+2} = b^{11}$

428. б) $\left(\frac{1}{2}\right)^7 \cdot \frac{1}{2} = \left(\frac{1}{2}\right)^{7+1} = \left(\frac{1}{2}\right)^8$

в) $(-5)^{11} \cdot (-5)^3 \cdot (-5) = (-5)^{11+3+1} = (-5)^{15}$

430. г) $(e^{17} : e^{10}) : e^5 = e^{17-10} : e^5 = e^7 : e^5 = e^{7-5} = e^2$

е) $(a^5 : a) : (a^4 : a^2) = a^{5-1} : a^{4-2} = a^4 : a^2 = a^{4-2} = a^2$

$$431. \delta) \left(2\frac{1}{2}\right)^6 : 2,5^4 = (2,5)^6 : 2,5^4 = 2,5^{6-4} = 2,5^2$$

$$\text{Найомена: } 2\frac{1}{2} = 2,5$$

$$432. \tau) \frac{4^{20} : 4^{15}}{4^2} = \frac{4^{20-15}}{4^2} = \frac{4^5}{4^2} = 4^{5-2} = 4^3 = 4 \cdot 4 \cdot 4 = 16 \cdot 4 = 64$$

$$g) \frac{5^5 \cdot 5^6 \cdot 5^3}{5^{15} : 5^3} = \frac{5^{5+6+3}}{5^{15-3}} = \frac{5^{14}}{5^{12}} = 5^{14-12} = 5^2 = 25$$

$$e) \frac{(-3)^{15} : (3^{10} : (-3)^2)}{-3 \cdot (-3)^5} = \quad // (-3)^2 = 3^2, \quad -3 = -3^1 //$$

$$\frac{(-3)^{15} : (3^{10} : 3^2)}{(-3)^{1+5}} = \quad // 3^{10} : 3^2 = 3^{10-2} = 3^8 //$$

$$\frac{(-3)^{15} : 3^8}{(-3)^6} =$$

$$(-3)^{15-6} : 3^8 =$$

$$(-3)^9 : 3^8 = \quad // (-3)^9 = -3^9 //$$

$$-3^9 : 3^8 =$$

$$-3^{9-8} =$$

$$-3^1 =$$

$$-3$$

Зонаты задавак: 427 (g, e), 431 (t, e), 432 (a, d, e, t)