

VII-2

РЕШЕЊА ЗАДАТАКА

група: Б

1. $\frac{9}{400}x^{10}y^{16} - 0,000036 = \left(\frac{3}{20}x^5y^8 - 0,006\right)\left(\frac{3}{20}x^5y^8 + 0,006\right)$
2. $\left(\frac{4}{5}x - 0,9\right)\left(\frac{4}{5}x + 0,9\right) = \frac{16}{25}x^2 - 0,81$
3. $\left(\frac{1}{6} - 2x\right)^2 = \frac{1}{36} - \frac{2}{3}x + 4x^2$
4. $\frac{4}{49}x^2 + \frac{12}{35}xy + \frac{4}{25}y^2 = \left(\frac{2}{7}x + \frac{2}{5}y\right)^2$
5. $-49x^3yz^6 + 21xy^3z^7 = 7xyz^6(-7x^2 + 3y^2z)$

VII-2

РЕШЕЊА ЗАДАТАКА

група: А

1. $0,0025x^2 - \frac{25}{144}y^{10}z^8 = \left(0,05x - \frac{5}{12}y^5z^4\right)\left(0,05x + \frac{5}{12}y^5z^4\right)$
2. $\left(\frac{3}{7}x - 0,5\right)\left(\frac{3}{7}x + 0,5\right) = \frac{9}{49}x^2 - 0,25$
3. $\left(5x - \frac{1}{2}\right)^2 = 25x^2 - 5x + \frac{1}{4}$
4. $\frac{9}{16}x^2 - \frac{15}{12}xy + \frac{25}{36}y^2 = \left(\frac{3}{4}x - \frac{5}{6}y\right)^2$
5. $-24x^3yz^6 - 36xy^2z^3 = -12xyz^3(2x^2z^3 + 3y)$

VII-3

РЕШЕЊА ЗАДАТАКА

група: А

1. $\frac{16}{49}x^8y^{10} - 0,0081 = \left(\frac{4}{7}x^4y^5 - 0,09\right)\left(\frac{4}{7}x^4y^5 + 0,09\right)$
2. $\left(\frac{3}{7}x - 0,7\right)\left(\frac{3}{7}x + 0,7\right) = \frac{9}{49}x^2 - 0,49$
3. $\left(\frac{3}{2} - 5x\right)^2 = \frac{9}{4} - 15x + 25x^2$
4. $\frac{4}{9}x^2 + \frac{16}{15}xy + \frac{16}{25}y^2 = \left(\frac{2}{3}x + \frac{4}{5}y\right)^2$
5. $14x^3yz^4 - 21x^4y^2z = 7x^3yz(2z^3 - 3xy)$

VII-3

РЕШЕЊА ЗАДАТАКА

група: Б

1. $0,000144 - \frac{49}{400}x^6y^{12} = \left(0,012 - \frac{7}{20}x^3y^6\right)\left(0,012 + \frac{7}{20}x^3y^6\right)$
2. $\left(\frac{1}{5}x - 0,4\right)\left(\frac{1}{5}x + 0,4\right) = \frac{1}{25}x^2 - 0,16$
3. $\left(2x - \frac{3}{2}\right)^2 = 4x^2 - 6x + \frac{9}{4}$
4. $\frac{9}{49}x^2 + \frac{12}{35}xy + \frac{4}{25}y^2 = \left(\frac{3}{7}x + \frac{2}{5}y\right)^2$
5. $16xy^2z^3 - 12x^2yz^4 = 4xyz^3(4y - 3xz)$

VII-4

РЕШЕЊА ЗАДАТАКА

група: А

1. $\frac{49}{121}x^4y^8 - 0,0036 = \left(\frac{7}{11}x^2y^4 - 0,06\right)\left(\frac{7}{11}x^2y^4 + 0,06\right)$
2. $\left(\frac{5}{4}x - 0,6\right)\left(\frac{5}{4}x + 0,6\right) = \frac{25}{16}x^2 - 0,36$
3. $\left(\frac{1}{2} - 5x\right)^2 = \frac{1}{4} - 5x + 25x^2$
4. $\frac{16}{25}x^2 - \frac{48}{35}xy + \frac{36}{49}y^2 = \left(\frac{4}{5}x - \frac{6}{7}y\right)^2$
5. $-14x^5y^3z^4 - 28xy^4z^3 = -14xy^3z^3(x^4z + 2y)$

VII-3

РЕШЕЊА ЗАДАТАКА

група: Б

1. $0,0009y^4 - \frac{25}{144}x^6 = \left(0,03y^2 - \frac{5}{12}x^3\right)\left(0,03y^2 + \frac{5}{12}x^3\right)$
2. $\left(\frac{7}{8}x - 0,7\right)\left(\frac{7}{8}x + 0,7\right) = \frac{49}{64}x^2 - 0,49$
3. $\left(\frac{3}{2} + 3x\right)^2 = \frac{9}{4} + 9x + 9x^2$
4. $\frac{49}{64}x^2 - \frac{28}{40}xy + \frac{4}{25}y^2 = \left(\frac{7}{8}x - \frac{2}{5}y\right)^2$
5. $-12xy^5z^6 - 28x^5yz^3 = -4xyz^3(3y^4z^3 + 7x^4)$