

Вежбање за контролни – први час

1. (27. збирка задатака)

$$\begin{aligned} \text{a)} \quad & -4 \cdot \left(-\frac{1}{2}\right)^2 + \left(-\frac{1}{3}\right)^2 \cdot 18 = \\ & -\frac{4}{1} \cdot \frac{1}{4} + \frac{1}{9} \cdot \frac{18}{1} = \\ & -1 + 2 = \\ & 1 \end{aligned}$$

(29. збирка задатака)

$$\begin{aligned} \text{б)} \quad & -3^2 \cdot \frac{2^2}{3} + \left(\frac{3}{4}\right)^2 \cdot \frac{12}{(-3)^2} \cdot 16 = \\ & -9 \cdot \frac{4}{3} + \frac{9}{16} \cdot \frac{12}{9} \cdot 16 = \\ & -\frac{9}{1} \cdot \frac{4}{3} + \frac{3}{4} \cdot \frac{16}{1} = \\ & -12 + 12 = \\ & 0 \end{aligned}$$

2. (166. збирка задатака)

$$\begin{aligned} \text{a)} \quad & 3\sqrt{8} - 2\sqrt{27} + 3\sqrt{12} + 5\sqrt{18} = \\ & 3 \cdot 2\sqrt{2} - 2 \cdot 3\sqrt{3} + 3 \cdot 2\sqrt{3} + 5 \cdot 3\sqrt{2} = \\ & 6\sqrt{2} - 6\sqrt{3} + 6\sqrt{3} + 15\sqrt{2} = \\ & 21\sqrt{2} \end{aligned}$$

$$\sqrt{8} = \sqrt{4 \cdot 2} = \sqrt{4} \cdot \sqrt{2} = 2 \cdot \sqrt{2} = 2\sqrt{2}$$

$$\sqrt{27} = \sqrt{9 \cdot 3} = \sqrt{9} \cdot \sqrt{3} = 3 \cdot \sqrt{3} = 3\sqrt{3}$$

$$\sqrt{12} = \sqrt{4 \cdot 3} = \sqrt{4} \cdot \sqrt{3} = 2 \cdot \sqrt{3} = 2\sqrt{3}$$

$$\sqrt{18} = \sqrt{9 \cdot 2} = \sqrt{9} \cdot \sqrt{2} = 3 \cdot \sqrt{2} = 3\sqrt{2}$$

(170. збирка задатака)

$$\begin{aligned} \text{б)} \quad & -\sqrt{2} + \frac{4}{\sqrt{8}} = \\ & -\sqrt{2} + \frac{4}{\sqrt{8}} \cdot \frac{\sqrt{8}}{\sqrt{8}} = \end{aligned}$$

$$-\sqrt{2} + \frac{4\sqrt{8}}{8} =$$

$$-\sqrt{2} + \frac{4\sqrt{4 \cdot 2}}{8} =$$

$$-\sqrt{2} + \frac{4 \cdot 2\sqrt{2}}{8} =$$

$$-\sqrt{2} + \frac{8\sqrt{2}}{8} =$$

$$-\sqrt{2} + \sqrt{2} = 0$$

$$\text{в) } \sqrt{\left(-1\frac{3}{4}\right)^2} + 8 \cdot \sqrt{1 + \frac{9}{16}} - \frac{1}{2}\sqrt{144} =$$

$$\left| -1\frac{3}{4} \right| + 8 \cdot \sqrt{\frac{16}{16} + \frac{9}{16}} - \frac{1}{2} \cdot 12 =$$

$$1\frac{3}{4} + 8 \cdot \sqrt{\frac{25}{16}} - \frac{1}{2} \cdot \frac{12}{1} =$$

$$1\frac{3}{4} + \frac{8}{1} \cdot \frac{5}{4} - 6 =$$

$$1\frac{3}{4} + 10 - 6 =$$

$$1,75 + 4 =$$

$$5,75 \quad \text{или} \quad 5\frac{3}{4}$$

3. (45. збирка задатака)

(56. збирка задатака)

а) $x^2 = 0,04$

$$x_1 = \sqrt{0,04} = 0,2$$

$$x_2 = -\sqrt{0,04} = -0,2$$

б) $9 - 2x^2 = 1$

$$2x^2 = 9 - 1$$

$$2x^2 = 8$$

$$x^2 = 8 : 2$$

$$x^2 = 4$$

$$x_1 = \sqrt{4} = 2$$

$$x_2 = -\sqrt{4} = -2$$

4. (200. збирка задатака)

б)

x	$\frac{1}{3}$	$\frac{1}{2}$	1	$1\frac{1}{3}$	2	3
y	1	$\frac{3}{2}$	3	4	6	9

$$y = k \cdot x$$

$$y = 3 \cdot \frac{1}{3} = 1$$

$$y = 3 \cdot \frac{1}{2} = \frac{3}{2}$$

$$3 = k \cdot 1$$

$$y = 3 \cdot 1\frac{1}{3} = 3 \cdot \frac{4}{3} = 4$$

$$y = 3 \cdot 3 = 9$$

$$k = 3$$

$$6 = 3 \cdot x \text{ следи да је } x = 6:3 = 2$$

У понедељак такође вежбамо за контролни, обавезно урадите задатке и са тог часа.

Пошаљите мејл ако нешто не разумете.

Наставнице Маја Заграђанин и Марија Тадић