

Час број 23: Вежба

77. задатак (20.страна)

$$a) (2\sqrt{3})^2 + (3\sqrt{2})^2 = 2^2(\sqrt{3})^2 + 3^2(\sqrt{2})^2 = 4 \cdot \sqrt{9} + 9 \cdot \sqrt{4} = 4 \cdot 3 + 9 \cdot 2 = 12 + 18 = 30$$

80. задатак (20.страна)

$$e) \frac{2}{5} - \sqrt{(2-3)^2} = \frac{2}{5} - \sqrt{(-1)^2} = \frac{2}{5} - |-1| = \frac{2}{5} - 1 = \frac{2}{5} - \frac{5}{5} = -\frac{3}{5}$$

82. задатак (20.страна)

$$z) \quad x^2 = \frac{25}{36}$$

$$x_1 = +\sqrt{\frac{25}{36}} \quad x_2 = -\sqrt{\frac{25}{36}}$$

$$x_1 = \frac{5}{6} \quad x_2 = -\frac{5}{6}$$

$$x \in \left\{ -\frac{5}{6}, \frac{5}{6} \right\}$$

$$e) \quad \frac{2}{3}x^2 = \frac{3}{8}$$

$$x^2 = \frac{3}{8} : \frac{2}{3}$$

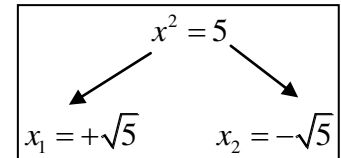
$$x^2 = \frac{3}{8} \cdot \frac{3}{2}$$

$$x^2 = \frac{9}{16}$$

$$x_1 = +\sqrt{\frac{9}{16}} \quad x_2 = -\sqrt{\frac{9}{16}}$$

$$x_1 = \frac{3}{4} \quad x_2 = -\frac{3}{4}$$

$$x \in \left\{ -\frac{3}{4}, \frac{3}{4} \right\}$$



89. задатак (21.страна)

$$e) \sqrt{1 - \frac{7}{16}} - \left(\frac{1}{2}\right)^2 + \left(-2\frac{3}{4}\right)^2 = \sqrt{\frac{16}{16} - \frac{7}{16}} - \frac{1}{4} + \left(-\frac{11}{4}\right)^2 = \sqrt{\frac{9}{16}} - \frac{1}{4} + \frac{121}{16} = \frac{3}{4} - \frac{1}{4} + \frac{121}{16} = \frac{3}{4} - \frac{1}{4} + \frac{121}{16} = \frac{12}{16} - \frac{4}{16} + \frac{121}{16} = \frac{129}{16}$$

122. задатак (26.страна)

$$z) y = k \cdot x$$

$$A(-4,1)$$

$$x = -4, \quad y = 1$$

$$1 = k \cdot -4$$

$$k = 1 : (-4)$$

$$k = -\frac{1}{4}$$

$$y = -\frac{1}{4} \cdot x$$

