

Објашњења  
( уоквирена плавим ),  
не морате преписивати  
у свеске .

**ЧАС БРОЈ 8 : Вежба ( Квадратни корен )**

$$1) 3\sqrt{25} - 4\sqrt{81} = 3 \cdot 5 - 4 \cdot 9 = 15 - 36 = \boxed{-21}$$

$$3\sqrt{25} = 3 \cdot \sqrt{25}$$

$$2) \sqrt{13^2 - 12^2} = \sqrt{169 - 144} = \sqrt{25} = \boxed{5}$$

$$3) (\sqrt{0,36} + \sqrt{1,96})^2 = (0,6 + 1,4)^2 = 2^2 = \boxed{4}$$

$$\sqrt{(-3)^2} = |-3| = 3$$

$$4) \sqrt{(-3)^2} \cdot \sqrt{\frac{16}{9}} = 3 \cdot \frac{4}{3} = \boxed{4}$$

$$5) \sqrt{1 + \frac{16}{9}} \cdot 0,3^2 = \sqrt{\frac{9}{9} + \frac{16}{9}} \cdot \left(\frac{3}{10}\right)^2 = \sqrt{\frac{25}{9}} \cdot \frac{9}{100} = \frac{\cancel{3}^1}{\cancel{3}^1} \cdot \frac{\cancel{9}^3}{100^{20}} = \boxed{\frac{3}{20}}$$

$$6) \sqrt{(5-13)^2} - \sqrt{13^2 - 5^2} + 13\sqrt{(-5)^2} = \sqrt{(-8)^2} - \sqrt{169 - 25} + 13 \cdot 5$$

$$= 8 - \sqrt{144} + 13 \cdot 5$$

$$= 8 - 12 + 65 = -4 + 65 = \boxed{61}$$

$$\sqrt{(-8)^2} = |-8| = 8$$

$$\sqrt{(-5)^2} = |-5| = 5$$

$$7) \sqrt{1 + \frac{9}{16}} - \sqrt{0,01} + \frac{9}{16} : \sqrt{\frac{9}{64}} = \sqrt{\frac{16}{16} + \frac{9}{16}} - 0,1 + \frac{9}{16} : \frac{3}{8}$$

$$= \sqrt{\frac{25}{16}} - \frac{1}{10} + \frac{9}{16} \cdot \frac{8}{3} = \frac{5}{4} - \frac{1}{10} + \frac{\cancel{3}^3}{\cancel{16}^2} \cdot \frac{\cancel{8}^1}{\cancel{3}^1}$$

$$= \frac{5}{4} - \frac{1}{10} + \frac{3}{2} = \frac{25}{20} - \frac{2}{20} + \frac{30}{20} = \frac{53}{20} = \boxed{2\frac{13}{20}}$$

$$8) \frac{3}{8} \cdot \sqrt{3 - \frac{11}{25}} + \sqrt{1,96} = \frac{3}{8} \cdot \sqrt{\frac{75}{25} - \frac{11}{25}} + 1,3 = \frac{3}{8} \cdot \sqrt{\frac{64}{25}} + 1,3 =$$

$$= \frac{\cancel{3}^1}{\cancel{8}^1} \cdot \frac{\cancel{8}^1}{\cancel{3}^1} + 1,3 = 1 + 1,3 = \boxed{2,3}$$

**Домаћи задатак:**

Збирка задатака:

**21. страна:**

**86. задатак: а, б**

**92. задатак: а, б**