

1.Sa se calculeze:

$$a.) 2\sqrt{3} + 7\sqrt{3} - 12\sqrt{3} =$$

$$b.) 7\sqrt{6} \cdot 2\sqrt{5} + 15\sqrt{60} : 3\sqrt{2} =$$

$$c.) 3\sqrt{150}(6\sqrt{98} - 8\sqrt{50} + 7\sqrt{108} - 10\sqrt{48}) =$$

$$d.) (\sqrt{243} + \sqrt{288})(\sqrt{12} - \sqrt{18}) + (\sqrt{72} - \sqrt{75})(\sqrt{108} - \sqrt{98})$$

$$e.) \frac{2}{\sqrt{45}} + \frac{1}{2\sqrt{5}} - \frac{1}{\sqrt{45}} - \frac{\sqrt{3}}{2}$$

2.Ordonati crescator numerele:

$$-\sqrt{3}; -2,0(5); \sqrt{1,7}; \sqrt{2}; 1; -5\sqrt{2}$$

3.Calculati media aritmetica si media geometrica a nr. x si y

$$\text{unde } x=3\sqrt{2}-2 \text{ iar } y=3\sqrt{2}+2$$

4.Calculati:

$$|2\sqrt{3} - 3\sqrt{2}| - |3 - 2\sqrt{3}| + |3\sqrt{2} - 5|$$

5.Sa se demonstreze ca $5\sqrt{2} \notin \mathbb{Q}$