

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

unde $x=3\sqrt{2}-2$ 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 $5\sqrt{2} \notin \mathbb{Q}$