

Korijeni – vježba

Izračunaj bez upotrebe kalkulatora:

1. $\sqrt{49} =$

2. $\sqrt{a^6} =$

3. $\sqrt{17^2} =$

4. $\sqrt{5} \cdot \sqrt{10} \cdot \sqrt{2} =$

5. $\frac{\sqrt{48}}{\sqrt{3}} =$

6. $\frac{\sqrt{a^{19}}}{\sqrt{a^3}} =$

7. $\sqrt{12 \cdot 15 \cdot 35 \cdot 7} =$

8. $\sqrt[3]{343} =$

9. $\sqrt[3]{a^{15}} =$

10. $\sqrt[3]{a^{666}} =$

11. $\sqrt[3]{x^2 y} (\sqrt[3]{x^4 y^2} - \sqrt[3]{x^4 y}) + x^2 \cdot \sqrt[3]{y^2} =$

12. $\sqrt[3]{(a^{13})^3 : (a^{-4})^{-4} \cdot a^9} =$

Djelomično korjenuj:

1. $\sqrt{98} = \sqrt{\quad}$

2. $\sqrt{a^5} = \sqrt{\quad}$

3. $\sqrt{a^3 b^7} = \sqrt{\quad}$

4. $\sqrt{a^9} - 2a^2 \sqrt{a^5} = \sqrt{\quad}$

5. $\sqrt[3]{a^4} = \sqrt[3]{\quad}$

6. $\sqrt[3]{a^7 b^6} = \sqrt[3]{\quad}$

Unesi pod znak korijena:

1. $2\sqrt{2} = \sqrt{\quad}$

2. $xy \sqrt[3]{y} = \sqrt[3]{\quad}$

3. $a \sqrt{a^3} = \sqrt{\quad}$

4. $\frac{2x^2}{y} \sqrt[3]{\frac{y^7}{4x}} = \sqrt[3]{\quad}$

Racionaliziraj:

1. $\frac{3}{\sqrt{3}} = \sqrt{\quad}$

2. $\frac{2}{\sqrt[3]{2}} = \sqrt[3]{\quad}$

3. $\frac{x}{y \sqrt{xy}} = \frac{\sqrt{\quad}}{\quad}$

4. $\frac{1}{\sqrt[3]{a^2}} = \frac{\sqrt[3]{\quad}}{\quad}$

5. $\frac{2}{\sqrt{5} - \sqrt{3}} = \sqrt{\quad} + \sqrt{\quad}$