

PREVERI ali ZNAŠ

1. KORENI!

B

Resitve

Ime in priimek: _____

a) $\sqrt{121} = \underline{\underline{11}}$

b) $\sqrt{32400} = \underline{\underline{180}}$

c) $\sqrt{2,56} = \underline{\underline{1,6}}$

č) $\sqrt{1\frac{11}{25}} = \sqrt{\frac{36}{25}} = \frac{6}{5} = \underline{\underline{1\frac{1}{5}}}$

b) $\frac{3 \cdot 3^3}{3^8 : 3 : 3^3} = \frac{3^4}{3^4} = 3^0 = \underline{\underline{1}}$

g) $\sqrt{121 \cdot 196} = 11 \cdot 14 = \underline{\underline{154}}$

e) $\frac{3^4 \cdot 3}{3^7 : 3} = \frac{3^5}{3^4} = 3^1 = \underline{\underline{3}}$

$\sqrt{8^2 + 6^2} = \sqrt{64 + 36} = \sqrt{100} = \underline{\underline{10}} / 8$

2. Izračunaj, uporabi pravila za računanje s koreni!

b) $\sqrt{32} \cdot \sqrt{2} = \sqrt{64} = 8$

b) $\sqrt{200} : \sqrt{2} = \sqrt{200 : 2} = \sqrt{100} = \underline{\underline{10}}$

c) $\frac{\sqrt{3}}{\sqrt{27}} = \sqrt{\frac{3}{27}} = \sqrt{\frac{1}{9}} = \frac{1}{3} = \underline{\underline{\frac{1}{3}}}$

3. Delno koreni

$$\sqrt{48} = \sqrt{3 \cdot 16} = \underline{\underline{4 \cdot \sqrt{3}}}$$

5. Izračunaj vrednost izrazov.

$$\text{a) } 7\sqrt{100} - 3\sqrt{4 \cdot 36} - 4\sqrt{81}$$

$$= 7 \cdot 10 - 3 \cdot 2 \cdot 6 - 4 \cdot 9 =$$

$$= 70 - 36 - 36 =$$

$$= 70 - 72 = \underline{\underline{-2}}$$

4. Racionaliziraj

$$\text{a) } \frac{\sqrt{12}}{\sqrt{99}} = \sqrt{\frac{12}{99}} = \sqrt{\frac{4}{33}} =$$

$$= \frac{2 \cdot \sqrt{33}}{\sqrt{33} \cdot \sqrt{33}} = \frac{2\sqrt{33}}{33} \quad /2$$

$$\text{b) } \frac{\sqrt{54}}{\sqrt{6}} + \sqrt{18 \cdot 2^3} =$$

$$= \sqrt{\frac{54}{6}} + \sqrt{18 \cdot 8} =$$

$$= \sqrt{9} + \sqrt{144} =$$

$$= 3 + 12 = \underline{\underline{15}} \quad /4$$