

PREVERI ali ZNAŠ

A

Resitve

Ime in priimek: _____

1. KORENI/potenciraj!

a) $\sqrt{225} = \underline{\underline{15}}$

b) $\sqrt{14400} = \underline{\underline{120}}$

c) $\sqrt{0,81} = \underline{\underline{0,9}}$

č) $\sqrt{\frac{9}{16}} = \underline{\underline{\frac{3}{4}}}$

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

e) $\frac{2^2 \cdot 2}{2^3 : 2} = \frac{2^3}{2^2} = 2^1 = \underline{\underline{2}}$

f) $\sqrt{5^2 + 12^2} = \sqrt{25 + 144} = \sqrt{169} = \underline{\underline{13}}$

g) $\sqrt{225 \cdot 361} = \sqrt{15 \cdot 19} = \underline{\underline{285}}$ /8

2. Izračunaj, uporabi pravila za računanje s koreni!

a) $\sqrt{2} \cdot \sqrt{8} = \sqrt{16} = \underline{\underline{4}}$

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

c) $\frac{\sqrt{28}}{\sqrt{7}} = \sqrt{\frac{28}{7}} = \sqrt{4} = \underline{\underline{2}}$ /3

3. Delno koreni

$$a) \sqrt{75} = \sqrt{3 \cdot 25} = 5 \cdot \sqrt{3}$$

4. Racionaliziraj

$$a) \frac{\sqrt{32}}{\sqrt{2}} = \frac{\sqrt{9}}{\sqrt{2}} = \frac{3 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \underline{\underline{\frac{3\sqrt{2}}{2}}}$$

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5. Izračunaj vrednost izrazov.

$$a) 5\sqrt{16} - \sqrt{2 \cdot 10^2 + 7 \cdot 8}$$

$$\begin{aligned} &= 5 \cdot 4 - \sqrt{2 \cdot 100 + 56} = \\ &= 20 - \sqrt{200 + 56} = \\ &= 20 - \sqrt{256} = \\ &= 20 - 16 = \underline{\underline{4}} \end{aligned}$$

$$b) \sqrt{6\frac{1}{4}} : \sqrt{5\frac{1}{4} + 3\frac{3}{4}}$$

$$\begin{aligned} &= \sqrt{\frac{25}{4}} : \sqrt{9} = \\ &= \frac{5}{2} : 3 \\ &= \frac{5 \cdot 1}{2 \cdot 3} = \underline{\underline{\frac{5}{6}}} \end{aligned}$$

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