

Ime in Priimek : _____

Datum : _____

www.otroci.org

Otrokom in staršem prijazna
stran na internetu

KORENENJE 2

1. DELNO KORENI NASLEDNJA ŠTEVILA:

32

98

128

216

300

2. KORENI, ČE SE DA, IN REZULTAT RACIONALIZIRAJ.

a) $\sqrt{\frac{25}{3}} =$

c) $\frac{12}{\sqrt{8}} =$

3. DELNO KORENI IN POENOSTAVI.

a) $\sqrt{18} - 3\sqrt{27} + \sqrt{72} =$

b) $\sqrt{96} + 2\sqrt{75} - 4\sqrt{24} =$

c) $3\sqrt{48} + 2\sqrt{12} + 5\sqrt{45} =$

d) $\sqrt{50} - 2\sqrt{25} =$

e) $\sqrt{80} - 7\sqrt{8} =$



Ime in Priimek : _____

Datum : _____

www.otroci.org

Otrokom in staršem prijazna
stran na internetu

KORENENJE 2

1. DELNO KORENI NASLEDNJA ŠTEVILA:

$$32 \quad \sqrt{32} = \sqrt{16 \cdot 2} = 4\sqrt{2}$$

$$98 \quad \sqrt{98} = \sqrt{49 \cdot 2} = 7\sqrt{2}$$

$$128 \quad \sqrt{128} = \sqrt{64 \cdot 2} = 8\sqrt{2}$$

$$216 \quad \sqrt{216} = \sqrt{36 \cdot 6} = 6\sqrt{6}$$

$$300 \quad \sqrt{300} = \sqrt{100 \cdot 3} = 10\sqrt{3}$$

2. KORENI, ČE SE DA, IN REZULTAT RACIONALIZIRAJ.

$$\text{a) } \sqrt{\frac{25}{3}} = \frac{5}{\sqrt{3}} = \frac{5\sqrt{3}}{3}$$

$$\text{b) } \frac{12}{\sqrt{8}} = \frac{12}{2\sqrt{2}} = \frac{6}{\sqrt{2}} = \frac{6\sqrt{2}}{2} = 3\sqrt{2}$$

3. DELNO KORENI IN POENOSTAVI.

$$\text{a) } \sqrt{18} - 3\sqrt{27} + \sqrt{72} = 3\sqrt{2} - 3\sqrt{3} + 6\sqrt{2} = 9\sqrt{2} - 3\sqrt{3}$$

$$\text{b) } \sqrt{96} + 2\sqrt{75} - 4\sqrt{24} = 4\sqrt{6} + 10\sqrt{3} - 8\sqrt{6} = 10\sqrt{3} - 4\sqrt{6}$$

$$\text{c) } 3\sqrt{48} + 2\sqrt{12} + 5\sqrt{45} = 12\sqrt{3} + 4\sqrt{3} + 15\sqrt{5} = 16\sqrt{3} + 15\sqrt{5}$$

$$\text{d) } \sqrt{50} - 2\sqrt{25} = 5\sqrt{2} - 10$$

$$\text{e) } \sqrt{80} - 7\sqrt{8} = 4\sqrt{5} - 14\sqrt{2}$$

