4. PREIZKUS ZNANJA MAT - 8R – MUS1

Izrazi, kvadrati, koreni. Šol .l. 2019/2020

Ime in priimek:
Datum:
Podpis staršev:

Št. točk: 65 /
Ocena:
Datum analize testa:

	8

1. Kvadriraj!

$(-5)^2 =$ $\quad$ $(\frac{1}{15})^2 =$

$1600^2 =$ $\quad$ $(-1\frac{6}{7})^2 =$

$-0,3^2 =$ $\quad$ $\frac{5^2}{9} =$

$0,02^2 =$ $\quad$ $2,3^2 =$

2. Koreni!

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$\sqrt{289} =$ $\quad$ $\sqrt{\frac{81}{121}} =$

$\sqrt{3600} =$ $\quad$ $\sqrt{1\frac{9}{16}} =$

$\sqrt{1,96} =$ $\quad$ $\sqrt{-4} =$

$\sqrt{0,64} =$ $\quad$ $\sqrt{2,6^2} =$

3. Racionaliziraj imenovalec in poenostavi. | | 6 |

a) $\sqrt{\frac{36}{5}} =$

b) $\frac{5 \cdot \sqrt{12}}{\sqrt{3}} =$

c) $\frac{3}{\sqrt{6}} =$

4. Izračunaj vrednost potenc, uporabi lastnosti potenciranja : | | 10 |

$2^{15} : 2^{12} =$

$2^3 \cdot 5^3 =$

$\frac{6^4 \cdot 6^5}{2^6 \cdot 3^6} =$

$26^{-4} \cdot 26^4 =$

$(4^5)^2 : 4^7 =$

5. Delno koreni.

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$\sqrt{36 \cdot 7} =$

$\sqrt{45} =$

$\sqrt{8 \cdot 5} =$

$\sqrt{72} =$

6. Potenciraj.

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a) $4^3 =$	b) $200^2 =$	c) $-(-2)^3 =$
d) $(-3)^3 =$	e) $-5^3 =$	f) $\left(-\frac{3}{5}\right)^2 =$
g) $-\frac{1}{2}^2 =$	h) $-\left(-\frac{1}{2}\right)^2 =$	i) $(-0{,}1)^5 =$

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7. Izračunaj vrednost izrazov.

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a)) $5 \cdot ((\sqrt{25} - \sqrt{49})^2 - 4 \cdot \sqrt{2^3 - 4}) =$	b) $\sqrt{231 - \sqrt{33 + \sqrt{25 - \left((-4)^2\right)}}} =$
c) $\dfrac{\left(\sqrt{9 - \sqrt{4\frac{3}{4} : 0{,}038 - 10^2}}\right)^5}{\sqrt{4^3} : \sqrt{5^3 - 11^2}} \cdot \dfrac{1}{8} =$ $=$	d) $(2^3 \cdot \sqrt{1{,}96} - 3 \cdot \sqrt{2{,}25}) \cdot (-2)^3 =$

Ocenjevalna lestvica:

92% – 100% odl.(5)	80% – 91% pd.(4)	65% – 79% db.(3)	50% – 64 % zd. (2)	0% – 49 % nzd.(1)