

Priprema za ispit znanja (kvadriranje i korjenovanje)

1. Korjenuj:

a) $\overline{121}$ b) $\overline{169}$ c) $\overline{\frac{81}{225}}$ d) $\overline{0.09}$ e) $\overline{2\frac{2}{49}}$.

2. Izračunaj:

a) $(\overline{5})^2$ b) $(3\overline{6})^2$ c) $(\overline{\frac{6}{4}})^2$ d) $(\overline{12} + \overline{3})^2$ e) $\overline{7} \cdot (\overline{3} - \overline{7})$.

3. Izračunaj:

a) $2\overline{5} + 5\overline{5}$ b) $15\overline{7} + 7\overline{11} - 6\overline{7} - 8\overline{11}$.

4. Izračunaj:

a) $\overline{3} \cdot \overline{12}$ b) $\overline{\frac{50}{2}}$ c) $\overline{\frac{5}{6} \cdot \frac{10}{3}}$ d) $\overline{\frac{3}{98}} : \overline{\frac{75}{2}}$.

5. Djelomično korjenuj:

a) $\overline{20}$ b) $\overline{300}$ c) $\overline{75} + \overline{125} - 2\overline{5}$.

6. Racionaliziraj nazivnik:

a) $\overline{\frac{1}{5}}$ b) $\overline{\frac{4}{8}}$ c) $\overline{\frac{2}{3}}$.

7. Riješi jednadžbe:

a) $x^2 = 100$ b) $4x^2 = 16$ c) $x^2 - 25 = 0$ d) $2x^2 - 40 = 0$.

8. Kvadriraj:

a) $(3a - b)^2$ b) $(\frac{2}{3}x + \frac{1}{4})^2$ c) $16x^2 - 81y^2$ d) $(7x - 4)(7x + 4)$.

9. Potenciraj:

a) $10^5 \cdot 10^7$ b) $10^{13} : 10^9$ c) $(10^5)^6$ d) $5 \cdot 10^6 - 7 \cdot 10^6 + 3 \cdot 10^6$.