Kontrolni zadatak br. 1 - A grupa

Ime i prezime

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1. Uprostiti izraze:

a) $\left(\frac{a^2}{b^3}\right)^{-4} : \left(\frac{a^{-4}}{b^{-2}}\right)^3 \cdot \left(ab^{-3}\right)^{-5} =$

b) $\left(\frac{3x^{-2}}{5y^{-3}}\right)^{-3} \cdot \left(\frac{9x^{-1}}{5y^{-3}}\right)^2 =$

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2. Utvrditi parnost i neparnost funkcija:

a) $y = 5|x| + 1$

b) $y = -2x^3 + x$

c) $y = 2x - 4$

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3. Izračunati:

a) $\sqrt[5]{x\sqrt[3]{x^2}} : \sqrt{x^3\sqrt[4]{x}} \cdot \sqrt[4]{\sqrt[3]{x^{18}}} =$

b) $\sqrt{x^2 - 6x + 9} - x =$

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4. Racionalisati imenilac razlomka:

a) $\frac{4x - y}{2\sqrt{x} + \sqrt{y}} =$

b) $\frac{a + 8}{\sqrt{\sqrt[3]{a} + 2}} =$

Kontrolni zadatak br. 1 -B grupa

Ime i prezime

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1. Uprostiti izraze:

a) $\left(\frac{2a^{-2}}{3ab^{-3}}\right)^{-4} : \left(\frac{4a^{-2}}{3b^{-3}}\right)^{2} =$

b) $\left(\frac{x^{-2}}{4y^{3}}\right)^{2} \cdot \left(\frac{-2x^{2}}{y^{-3}}\right)^{-4} =$

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2. Utvrditi parnost i neparnost funkcija:

a) $y = -2|x| + 3$

b) $y = 2x^{3} - x$

c) $y = 5x - 2$

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3. Izračunati:

a) $\sqrt[4]{a^{2}\sqrt{a}} \cdot \left(\sqrt{a^{-1}}\right)^{-3} : \sqrt[6]{a^{5}} =$

b) $x - \sqrt{x^{2} - 2x + 1} =$

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4. Racionalisati imenilac razlomka:

a) $\frac{a - 9b}{\sqrt{a} + 3\sqrt{b}} =$

b) $\frac{x + 8}{\sqrt{\sqrt[3]{x} + 3}} =$