

POTENCIJE – ponavljanje gradiva – RM 5



1. Zapiši u obliku potencije po bazi 2: $10 \cdot 2^{10} + 3 \cdot 4^6 + 20 \cdot 8^3 =$

2. Izračunaj vrijednost izraza: $4 \cdot \frac{3}{4^3} + \left(-\frac{1}{2}\right)^3 =$

3. Izračunaj:

a. $6 \cdot (y^7)^4 - 12 \cdot (y^{14})^2 =$

b. $2a^2 - 5a - 6a^2 - 4a =$

c. $\left(\frac{3}{4}\right)^4 \cdot \left(\frac{4}{3}\right)^4 =$

d. $(x^4 y^5)^2 \cdot (x^2 y^3)^2 =$

e. $2a^2 b^3 \cdot \frac{1}{4} ab^5 \cdot 8b^3 =$

f. $\left(\frac{3}{2} x^2 y\right)^3 \cdot \left(\frac{2}{3} x^3 y^2\right)^2 =$

g. $\left(\frac{4}{5}\right)^y : \left(\frac{2}{25}\right)^y =$

h. $c^{18+3x} : c^{4x-3} =$

i. $a^{28} \cdot a^{11} \cdot a^6 =$

j. $(3a^2)^2 - (2a)^4 + 3a^4 =$

k. $\left(\frac{10}{x}\right)^{7a-b} : \left(\frac{10}{x}\right)^{8a+b} =$

l. $\left(\frac{a^4}{3b^2}\right)^4 \cdot (9a^2 b^2)^3 =$

4. Pojednostavi primjenjujući odgovarajuća pravila:

a. $\left(\frac{2a^3 b^2}{3c^4}\right)^3 \cdot \left(\frac{9a^4 c^3}{8b^4}\right)^2 =$

b. $2x^{18} : x^6 - (-2x^3)^4 + 5(-x^2)^6 =$

c. $2(a^2)^3 - (-3a^2)^3 + (-2a)^6 =$