

Preverjanje znanja- POTENCE.

1. Izračunaj:

a) $2 + 8 : (-2) =$

b) $(5 - 12) \cdot (-13 + 7) =$

c) $32 : (-4) + 9 \cdot (-7) - 8 \cdot (-3) =$

d) $\left(-\frac{3}{7}\right) \cdot \frac{5}{8} \cdot \left(-\frac{14}{15}\right) + \frac{2}{3} \cdot (-3) =$

2. Zapiši kot produkt in izračunaj

a) $4^2 =$

b) $(-5)^2 =$

c) $(-3)^3 =$

č) $-2^5 =$

d) $(-10)^3 =$

e) $(-1)^{19} =$

f) $20^0 =$

g) $(-1,3)^2 =$

h) $1600^2 =$

i) $\left(\frac{2}{5}\right)^3 =$

j) $(-0,11)^2 =$

k) $\left(-3\frac{3}{4}\right)^2 =$

l) $3^{-4} =$

n) $\left(\frac{7}{6}\right)^{-1} =$

3. Zapiši s potenco:

a) $9 \cdot 9 \cdot 9 \cdot 9 =$

b) $u^2 \cdot u^8 =$

c) $6^{10} : 6^4 =$

č) $\frac{y^8}{y^3} \cdot y^8 : y =$

4. Preoblikuj in izračunaj:

a) $5^5 \cdot 2^5 =$

b) $(-5)^4 \cdot 4^4 =$

c) $\frac{18^4}{9^4} =$

d) $\left(-\frac{4}{7}\right)^2 \cdot \left(-\frac{21}{8}\right)^2 =$

5. Spretno izračunaj:

a) $10^5 \cdot 10^{-8} =$

b) $7^{-8} : 7^{-3} =$

c) $-10^{-8} : 10^{-3} \cdot 10 =$

d) $\frac{x^7}{x^3} \cdot \frac{x^5}{x^6} =$

e) $\frac{a^4}{b^3} \cdot \frac{b^5}{a^2} =$

f) $\frac{4^2 \cdot 4^4}{2 \cdot 2^5} =$

g) $\frac{0,1^2}{0,01^2} =$

h) $\frac{8^7 \cdot 8^2 \cdot 5^4}{10^4 \cdot 4^6 \cdot 4^3} =$

6. Izračunaj:

a) $-10 \cdot 4^2 =$

b) $3^3 - 2^6 =$

c) $0,2^3 - 2^3 =$

d) $(6^2 - 3 \cdot 2^3)^2 + 5^0 =$

e) $-\left(-1\frac{1}{3}\right)^2 : \left(-\frac{2}{5}\right)^2 =$

$$f) \left(-\frac{2}{3}\right)^2 : \left(-\frac{4}{9}\right) + (3^2 - 2^3)^5 - (-2)^3 =$$

$$g) 4^{-2} - 3^{-1} + 2^0 - 5 + 3^2 =$$

7.Poenostavi:

$$a) (3 \cdot a \cdot b)^2 =$$

$$b) (-2 \cdot a^3 \cdot b^4)^2 =$$

$$c) \left(-\frac{1}{2} \cdot a^7 \cdot b^8\right)^3 =$$

DODATNA:

$$\left(\left(\left(-\frac{1}{2}\right)^2 + 1\right)^1\right)^2 - \left(2^2 - \frac{6}{5}\right)^0 : (-2)^6 + 2^{-4} =$$