

Mocniny a odmocniny – bez kalkulačky

1.

$$-4^2 =$$

$$(-3)^2 =$$

$$0,07^2 =$$

$$0,01^5 =$$

$$\sqrt{0,0009} =$$

$$\sqrt[3]{0,001} =$$

$$\sqrt{0,000121} =$$

$$\sqrt[6]{0,000001} =$$

$$\frac{4^2}{3} =$$

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

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

$$\frac{5}{6^2} =$$

2. Zapiš v tvare $a \cdot 10^n$, tak aby $1 \leq a < 10, n \in \mathbb{N}$

$$14\,000 =$$

$$7\,000\,000\,000 =$$

3. Zapiš ako prirodzené číslo :

$$8,3 \cdot 10^4 =$$

$$1,21 \cdot 10^3 =$$

4. Vypočítaj :

$$\frac{\sqrt{25} - 3^2}{2^3 + \sqrt[5]{1} - \sqrt[3]{125}} =$$

$$\frac{\sqrt{49} - 3^2}{1^8 + \sqrt{225}} =$$

$$\frac{\sqrt[3]{4 \cdot 7 - 1}}{-\sqrt{3} + 3 \cdot 11} =$$

Výsledky :

$$-4^2 = -16$$

$$0,07^2 = 0,0049$$

$$\sqrt{0,0009} = 0,03$$

$$\sqrt{0,000121} = 0,011$$

$$\frac{4^2}{3} = \frac{16}{3}$$

$$\left(-\frac{1}{2}\right)^3 = -\frac{1}{8}$$

$$(-3)^2 = 9$$

$$0,01^5 = 0,0000000001$$

$$\sqrt[3]{0,001} = 0,1$$

$$\sqrt[6]{0,000001} = 0,1$$

$$\left(\frac{3}{5}\right)^2 = \frac{9}{25}$$

$$\frac{5}{6^2} = \frac{5}{36}$$

1. Zapiš v tvare $a \cdot 10^n$, tak aby $1 \leq a < 10, n \in N$

$$14\ 000 = 1,4 \cdot 10^4$$

$$7\ 000\ 000\ 000 = 7 \cdot 10^9$$

2. Zapiš ako prirodzené číslo :

$$8,3 \cdot 10^4 = 83\ 000$$

$$1,21 \cdot 10^3 = 1\ 210$$

3. Vypočítaj :

$$\frac{\sqrt{25} - 3^2}{2^3 + \sqrt[5]{1} - \sqrt[3]{125}} = \frac{5 - 9}{8 + 1 - 5} = \frac{-4}{4} = -1$$

$$\frac{\sqrt{49} - 3^2}{1^8 + \sqrt{225}} = \frac{7 - 9}{1 + 15} = \frac{-2}{16} = -\frac{1}{8}$$

$$\frac{\sqrt[3]{4 \cdot 7 - 1}}{-\sqrt{3} + 3 \cdot 11} = \frac{\sqrt[3]{27}}{-\sqrt{36}} = \frac{3}{-6} = -\frac{1}{2}$$