

Ms Co je mocina a prirodny mocitel

16.11.

18.11.

$$a^n = \underbrace{a \cdot a \cdot a \cdot \dots \cdot a}_{n\text{-krát}}$$

řádek mociny

$$a^1 = a$$

pr: $7^6 = 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$

$$(-0,1)^4 = (-0,1) \cdot (-0,1) \cdot (-0,1) \cdot (-0,1)$$

$$2^9 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$$

Co je to prirodny mocitel?

1, 2, 3, 4, ... atd.

39/2

A

$$6^7$$

$$0,3^5$$

$$\left(-\frac{1}{8}\right)^4$$

$$21^6$$

B

$$8^6$$

$$0,4^5$$

$$\left(-\frac{2}{5}\right)^4$$

$$32^7$$

39/3

$$12^7$$

$$7^{12}$$

$$(-47)^5$$

$$(-0,2)^8$$

39/4

$$20^{11}$$

$$(-3)^8$$

$$(-5,6)^6$$

39/6

A

$$2^4 = 16$$

$$(-2)^6 = 64$$

$$3^5 = 243$$

$$(-3)^5 = -243$$

$$0,1^4 = 0,0001$$

$$(-0,1)^4 = 0,0001$$

B

$$2^5 = 32$$

$$(-2)^7 = -128$$

$$3^4 = 81$$

$$(-3)^4 = 81$$

$$0,1^5 = 0,00001$$

$$(-0,1)^5 = -0,00001$$

$$0^1 = 0 \quad 0^2 = 0 \quad 0^3 = 0 \quad 0^4 = 0 \quad \dots \text{atd.}$$

$$1^1 = 1 \quad 1^2 = 1 \quad 1^3 = 1 \quad 1^4 = 1 \quad \dots \text{atd.}$$

$$(-1)^1 = -1 \quad (-1)^2 = 1 \quad (-1)^3 = -1 \quad (-1)^4 = 1 \quad \dots \text{atd.}$$

$$2^1 = 2 \quad 2^2 = 4 \quad 2^3 = 8 \quad 2^4 = 16 \quad 2^5 = 32 \quad 2^6 = 64 \quad \dots$$

$$3^1 = 3 \quad 3^2 = 9 \quad 3^3 = 27 \quad 3^4 = 81 \quad \dots$$

$$4^1 = 4 \quad 4^2 = 16 \quad 4^3 = 64 \quad \dots$$

$$5^1 = 5 \quad 5^2 = 25 \quad 5^3 = 125 \quad \dots$$

$$10^1 = 10 \quad 10^2 = 100 \quad 10^3 = 1000 \quad 10^4 = 10\,000 \quad \dots$$

$$0,1^1 = 0,1 \quad 0,1^2 = 0,01 \quad 0,1^3 = 0,001 \quad 0,1^4 = 0,0001 \quad \dots$$

üü:

$$0^{126} = 0$$

$$1^{128} = 1$$

$$(-1)^{128} = 1$$

$$(-1)^{127} = -1$$

$$0,5^3 = 0,125$$

$$50^3 = 125\,000$$

$$500^3 = 125\,000\,000$$

$$0,05^3 = 0,000\,125$$

$$0,2^4 = 0,000\,128$$

$$(-20)^5 = -3200\,000$$

$$(-20)^6 = 64\,000\,000$$