

Wzrostki dziesiętne

skończone

$$0,1 = \frac{1}{10}$$

$$1,12 = 1\frac{12}{100}$$

$$2,182131 = \frac{2182131}{1000000}$$

nie skończone

$$0,(3) = \frac{1}{3}$$

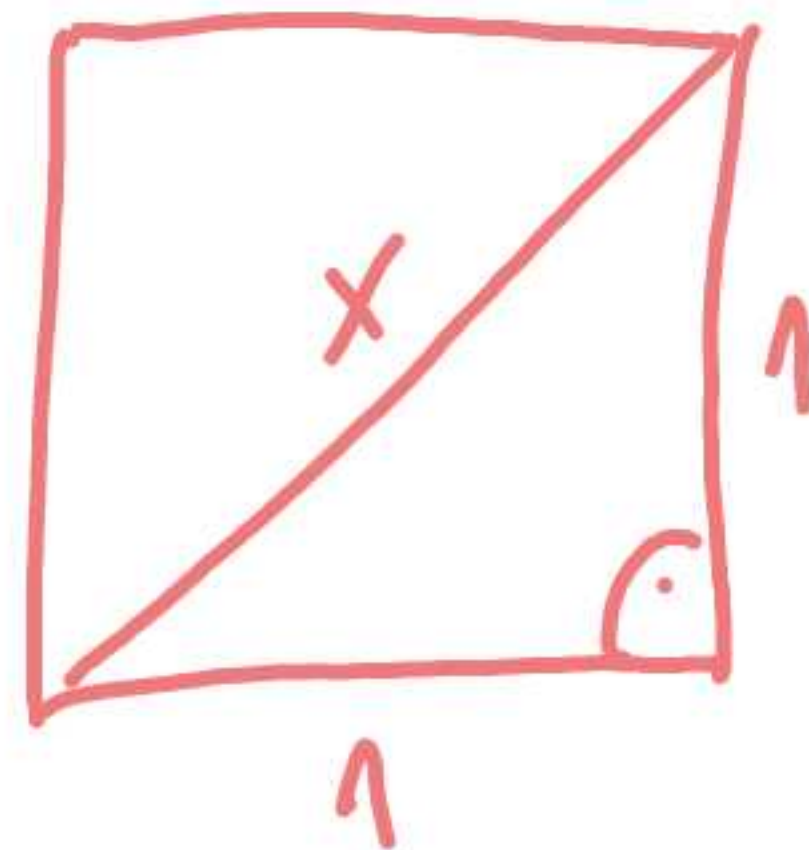
okresowe

nie okresowe
 π

$$\mathbb{N} = \{1, 2, 3, \dots\}$$

$$\mathbb{C} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$$

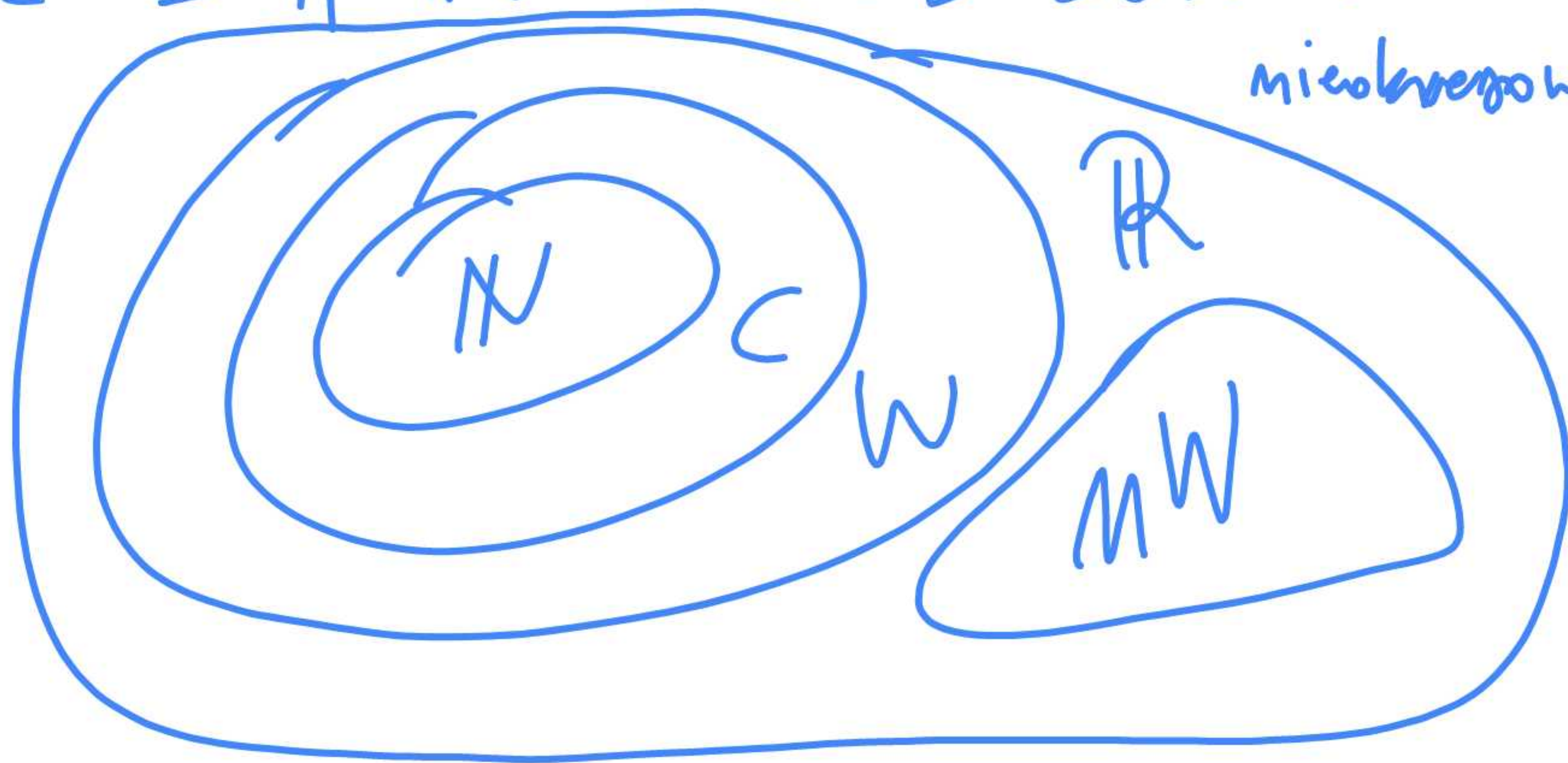
$$\mathbb{W} = \left\{ \frac{p}{q} : p \in \mathbb{C}, q \in \mathbb{C} \right\}$$



$$\begin{aligned} x^2 &= 1^2 + 1^2 \\ x^2 &= 2 \\ x &= \sqrt{2} \end{aligned}$$

$$\sqrt{2} = 1,41421356237309504 \rightarrow$$

microscopy



$$o_1(7) = 0,77777 \dots$$

$$\rightarrow x = 0,7777 \dots \quad | \cdot 10$$

$$- \quad 10x = 7,7777 \dots$$

$$9x = 7 \quad | : 9$$

$$x = \frac{7}{9}$$

$$o_1(2) = \frac{2}{9}$$

$$0, (15)$$

$$x = 0,15151515 \dots / \cdot 100$$

$$100x = 15,151515 \dots$$

$$99x = 15 / : 99$$

$$x = \frac{15}{99} = \frac{5}{33}$$

$$1, (12)$$

$$x = 1, 12 12 12 \dots \quad / \cdot 100$$

$$100x = 112, 12 12 12 \dots$$

$$99x = 111 \quad / : 99$$

$$x = \frac{111}{99} =$$

$$2_1(8)$$

$$x = 2.888\ldots / 10$$

$$10x = 28.888\ldots$$

$$9x = 26 \quad |:9$$

$$x = \frac{26}{9}$$

$$3_1(21)$$

$$6_1(123)$$