

DOBRE RANO :)

100B $\left\{ \begin{array}{l} 1. ZP \text{ V 8. TYZDNI (4SB) NA CVICENI} \\ 2. ZP \text{ SKUSKOVE OBDOBIE (5SB) 8.1 a 9.1. 2025} \end{array} \right.$

PRVA OPRAVA PRAVIEROK : 14.1 - OPRAVA 1.ZP
21.1 - OPRAVA 2.ZP

DRUHÁ OPRAVA PRAVIEROK :

- LEN PRE ŠTUDENTOV, KTORI ZISKALI ASPOŇ 40B

MAIS a MOODLE - ZATIAH SA NEHLÁSIŤ!
AŽ PO INFORMAČNOM MAILE

KM - VŠETKY INFORMÁCIE NA STRÁNKE DR. HUTNÍKOVEJ

MNOŽINY

SPÔSOB ZADANIA RESP. URČENIA MNOŽINY

1, VYMNENOVANIE PRVKOV $M = \{0, 1, 2, 3, 4, 5\}$

2, CHARAKTERISTICKOU VLASTNOSTOU $M = \{x \in \mathbb{R}; x < 2\}$

P_{v1} $A = \{0, 1\}$ $A \subset B$
 $B = \{x \in \mathbb{R}; x^2 < 2\}$ $B \not\subset A$ $-1 \in B$
 $-1 \notin A$

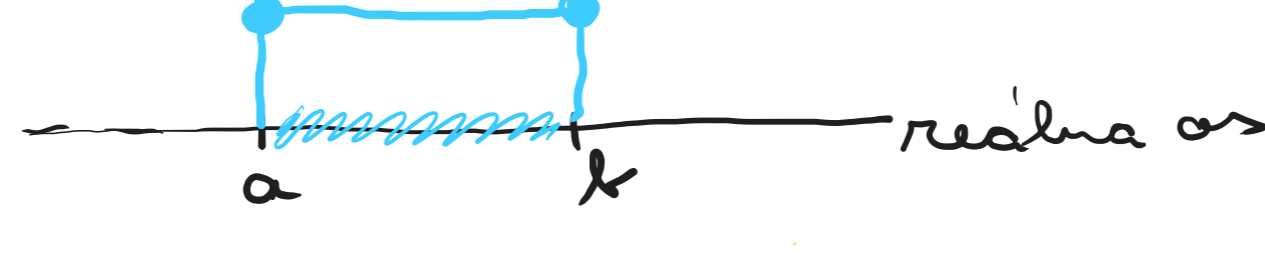
P_{v2} $A = \{1, 2, 3\}$ $A \cup B = \{1, 2, 3, 5, 6, 7\}$
 $B = \{3, 5, 6, 7\}$ $A \cap B = \{3\}$
 $A \setminus B = \{1, 2\}$
 $B \setminus A = \{5, 6, 7\}$


$A \times B = \{[1, 3]; [1, 5]; [1, 6]; [1, 7]; [2, 3]; [2, 5]; \dots\}$

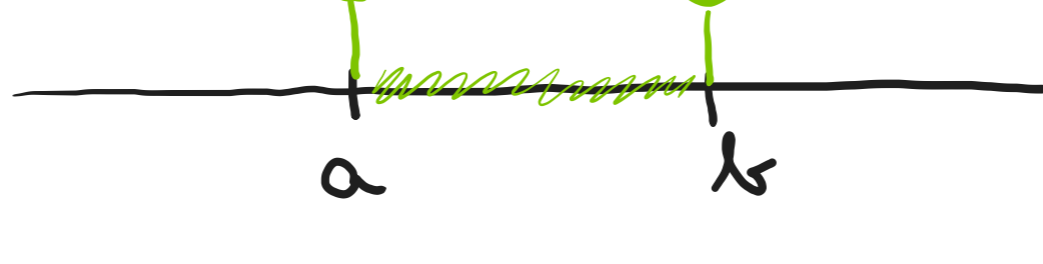
$M = \{1, 2, 3, 5, 6, 7\}; A, B \subset M$

$A^c = \{5, 6, 7\}$

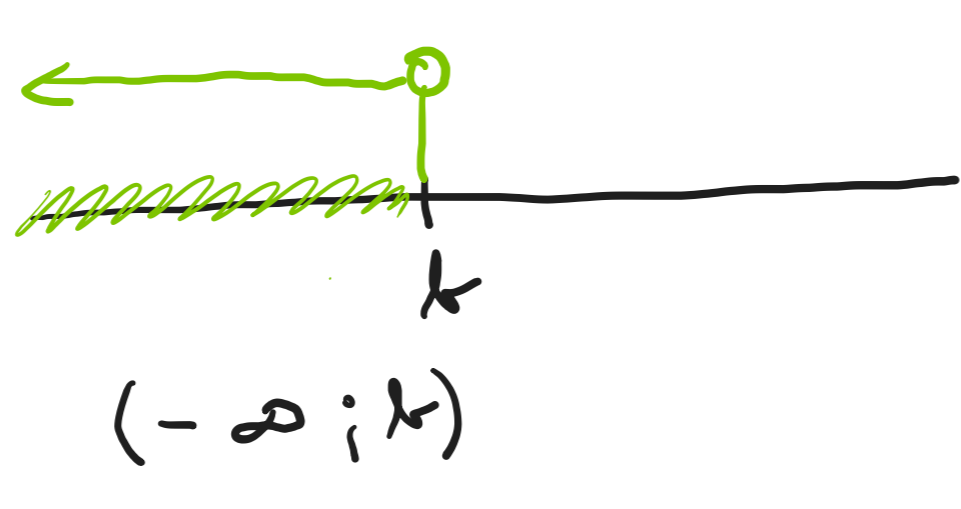
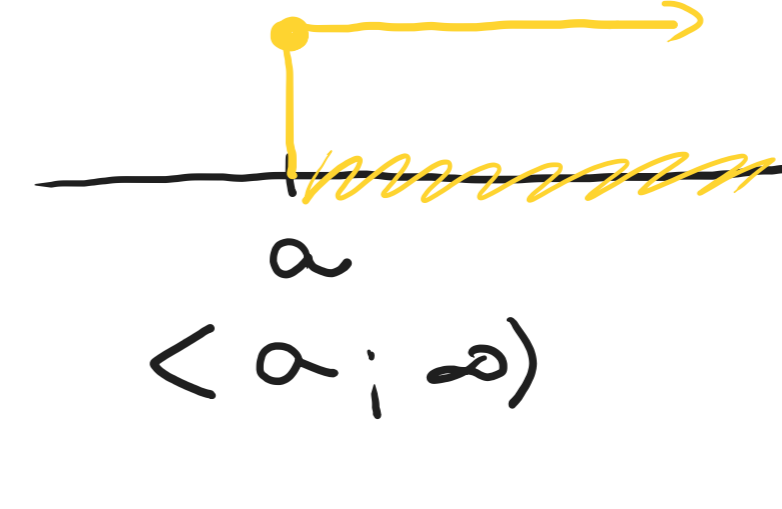
ČÍSELNÉ INTERVALY

$\langle a, b \rangle$ 

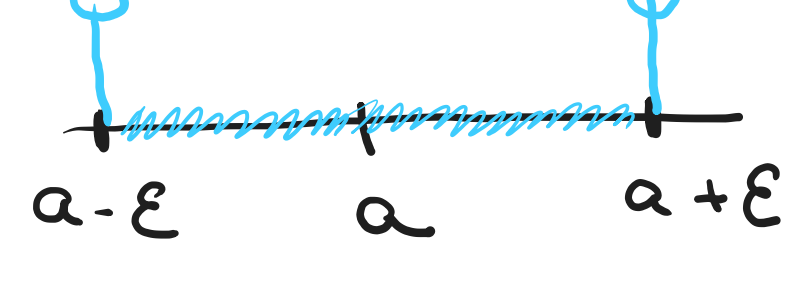
(a, b) 

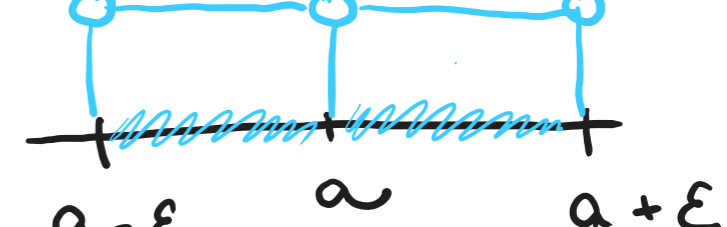
$\langle a, b \rangle$ 

NEPOUŽÍVAŤ ~~[]~~, ALE $\langle \rangle$

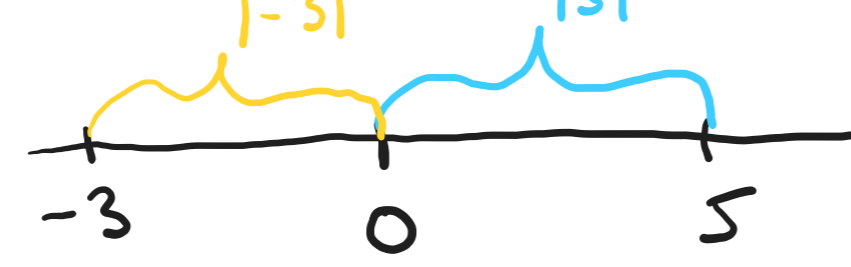
$\mathbb{R}^* = \mathbb{R} \cup \{\pm \infty\}$ $\mathbb{R} = (-\infty; \infty)$
 

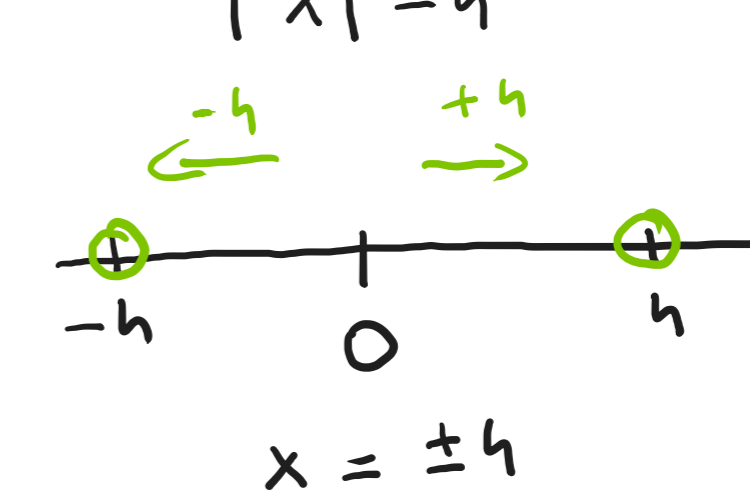
OKOLIE BODU

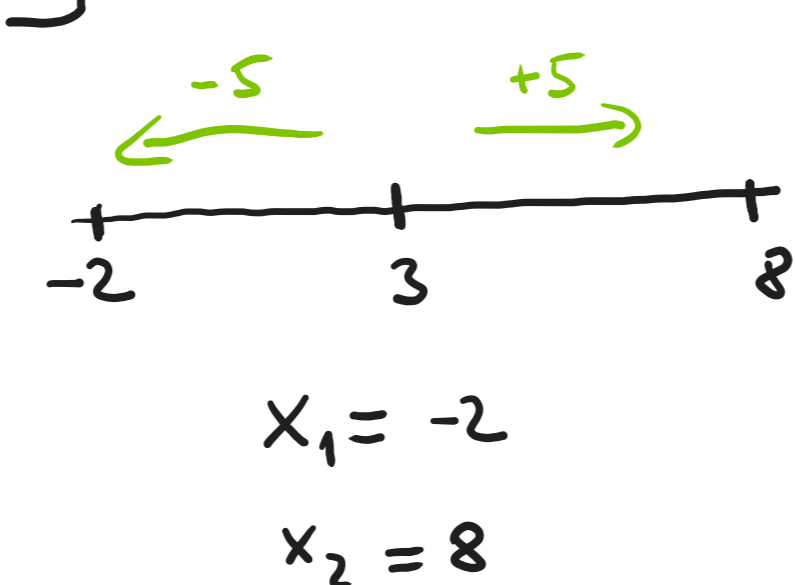
$\sigma_\epsilon(a) = (a - \epsilon; a + \epsilon)$ 

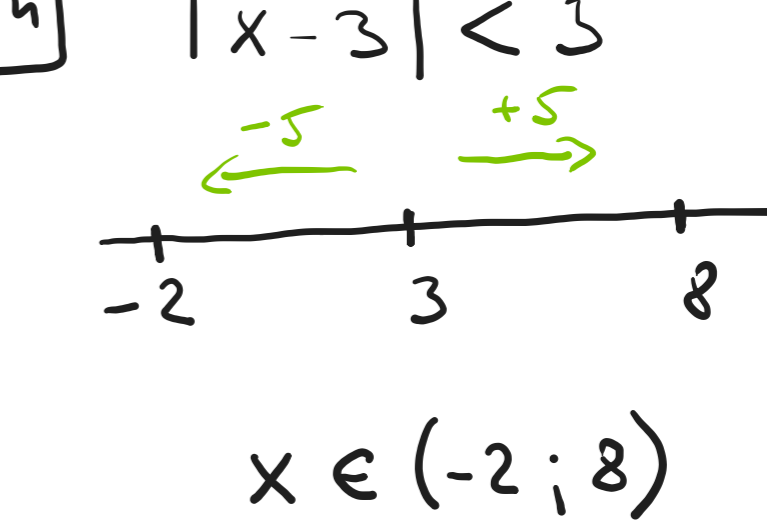
$\sigma_\epsilon^0(a) = (a - \epsilon; a) \cup (a, a + \epsilon)$ 

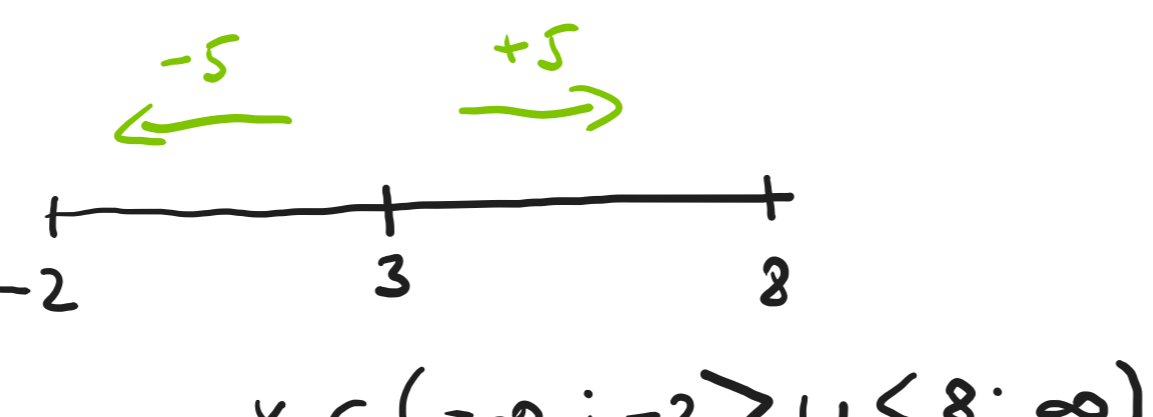
ABSOLÚTNA HODNOTA REÁLNEHO ČÍSLA

P_{v1} $|5| = 5$
 $|-3| = 3$


P_{v2} $|x| = 4$

 $x = \pm 4$

P_{v3} $|x - 3| = 5$

 $x_1 = -2$
 $x_2 = 8$

P_{v4} $|x - 3| < 5$

 $x \in (-2; 8)$

P_{v5} $|x - 3| \geq 5$

 $x \in (-\infty; -2) \cup (8; \infty)$

VYUŽITÍM ABSOLÚTNEJ HODNOTY

$\sigma_\epsilon(a) = (a - \epsilon; a + \epsilon) = \{x \in \mathbb{R}; |x - a| < \epsilon\}$

$\sigma_\epsilon^0(a) = (a - \epsilon; a + \epsilon) - \{a\} = \{x \in \mathbb{R}; 0 < |x - a| < \epsilon\}$

P_{v1} $A = \{-1, 0, 1\}$ P_{v2} $B = (1; 3)$
 $\max A = 1$ $\max B = 3$
 $\min A = -1$ $\min B = \text{nema}$

P_{v3} $C = (1; 5)$
dolné ohraničenie : $k = -20$
 $k = 1$
 $k = 0$
horné ohraničenie : $k = 5 = \max C$
 $k = 10$
 $k = 2024$

$\sup C = 5 = \max C$

$\inf C = 1$ $\min C = \text{nema}$

P_{v4} $D = (1; \infty)$
 $\min D = \text{nema}$ $\max D = \text{nema}$
 $\inf D = 1$ $\sup D = \text{nema}$

ČÍSELNÉ MNOŽINY

