

$$M = \{2, 3, 5, 7, 11, 13, \dots\}$$

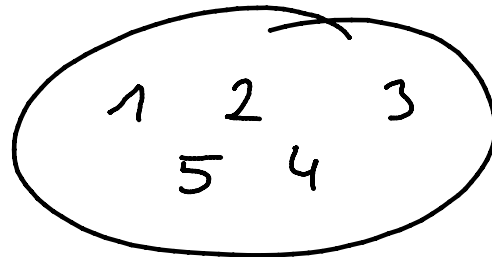
$$N = \{1, 2, 3, 4, 5, \dots\}$$

$$\emptyset = \{\}$$

$$M = \{x \in \mathbb{N} \mid x < 6\} = \{1, 2, 3, 4, 5\}$$

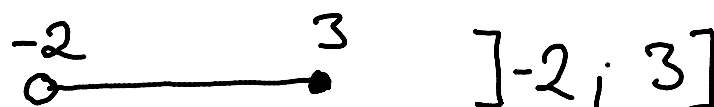
↑
"für die gilt"

↓ Mengenbild

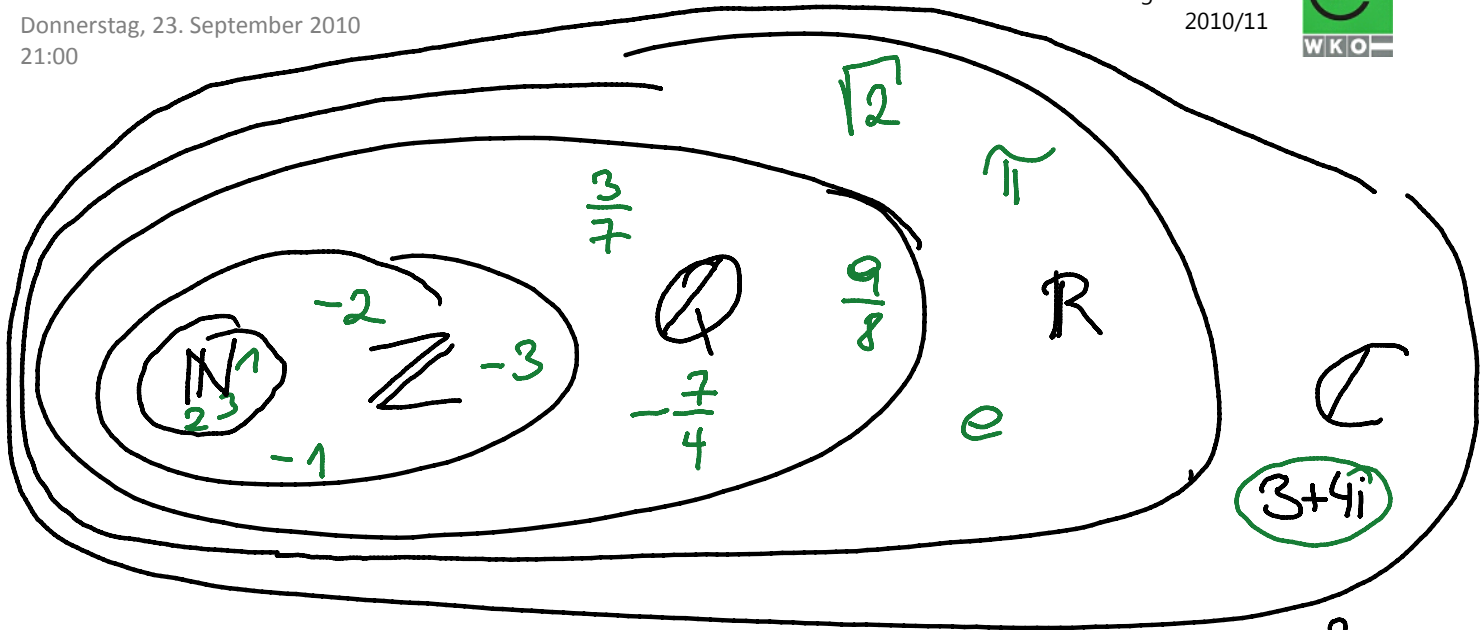


$$\{x \in \mathbb{R} \mid -2 \leq x \leq 3\} = [-2, 3]$$

↙ -2 und 3 dabei



-2 nicht dabei ↗



$i \cdot i = i^2 = -1$

\in ... ist Element

$\frac{4}{0}$ ⚡

$\frac{17}{18}$ $\frac{1}{2}$
 $\frac{34}{3}$

$\{2, 3, 5, 7, 11, \dots, p\}$

$2 \cdot 3 \cdot 5 \cdot 7 \cdot 11 \cdot \dots \cdot p+1 > p$

\forall ... Für alle

\exists ... Es gibt

$\forall \epsilon > 0 : \exists n_0 \in \mathbb{N} : \forall n > n_0 : \|a_n - a\| < \epsilon$

\neg ... nicht

$$\neg (2 \in \mathbb{N}_e) = 2 \notin \mathbb{N}_e$$

Mann Frau



$$A \cup B$$

$\leftrightarrow \vee$... oder / vel

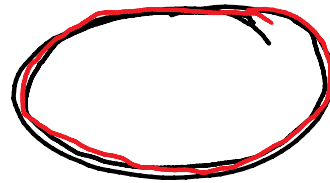


$$A \cap B$$

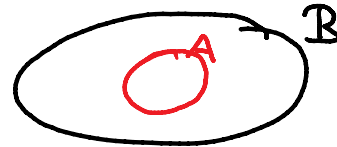
\wedge ... und

Polizei Hund

$$A = B$$



$$A \subset B$$



$$17 \cdot 24 = 17 \cdot 20 + 17 \cdot 4$$

1'

$$17 \cdot (20 + 4)$$

$$x \cdot (a + b) = x \cdot a + x \cdot b$$

$$(x + y) \cdot (a + b) = x \cdot a + x \cdot b + y \cdot a + y \cdot b$$