

CONJUNTOS NUMÉRICOS - INTERVALOS REAIS

CONJUNTO DO NÚMEROS NATURAIS – ($\mathbb{N}$)

$$\mathbb{N} = \{0, 1, 2, 3, 4, 5, \dots\}$$

$$A = \{x \in \mathbb{N} / x \leq 5\}$$

$$B = \{x \in \mathbb{N} / x < 4\}$$

$$C = \{x \in \mathbb{N}^* / x < 3\}$$

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CONJUNTO DO NÚMEROS NATURAIS – ($\mathbb{N}$)

$$\mathbb{N} = \{0, 1, 2, 3, 4, 5, \dots\}$$

$$A = \{x \in \mathbb{N} / x \leq 5\} \Rightarrow A = \{0, 1, 2, 3, 4, 5\}$$

$$B = \{x \in \mathbb{N} / x < 4\} \Rightarrow B = \{0, 1, 2, 3\}$$

$$C = \{x \in \mathbb{N}^* / x < 3\} \Rightarrow C = \{1, 2\}$$

CONJUNTOS NUMÉRICOS - INTERVALOS REAIS

CONJUNTO DOS NÚMEROS INTEIROS – ($\mathbb{Z}$)

$$\mathbb{Z} = \{\dots, -4, -3, -2, -1, 0, 1, 2, 3, 4, \dots\}$$

$$D = \{x \in \mathbb{Z} / -2 < x < 4\}$$

$$E = \{x \in \mathbb{Z}^* / -1 \leq x < 3\}$$

$$F = \{x \in \mathbb{Z}_- / x \geq -4\}$$

$$G = \{x \in \mathbb{Z}_+^* / x < 1\}$$

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CONJUNTO DOS NÚMEROS INTEIROS – ($\mathbb{Z}$)

$$\mathbb{Z} = \{\dots, -4, -3, -2, -1, 0, 1, 2, 3, 4, \dots\}$$

$$D = \{x \in \mathbb{Z} / -2 < x < 4\} \Rightarrow D = \{-1, 0, 1, 2, 3\}$$

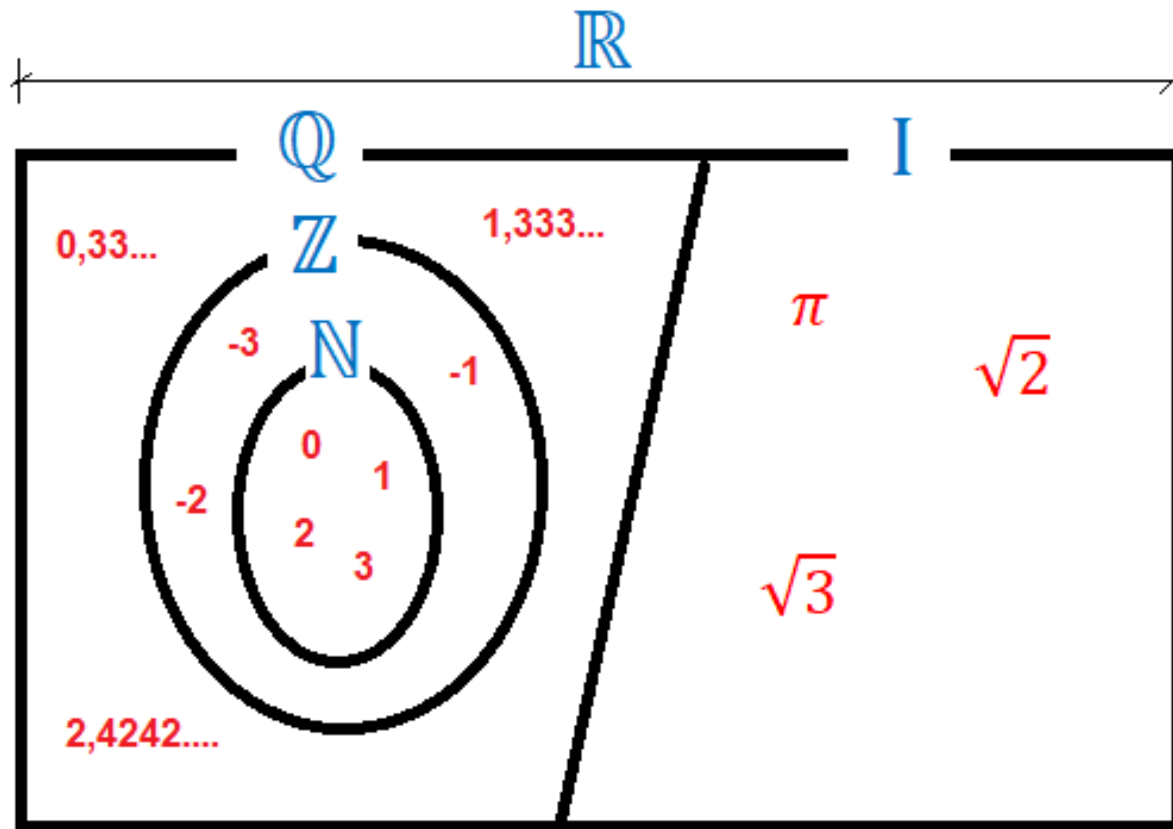
$$E = \{x \in \mathbb{Z}^* / -1 \leq x < 3\} \Rightarrow E = \{-1, 1, 2\}$$

$$F = \{x \in \mathbb{Z}_- / x \geq -4\} \Rightarrow F = \{-4, -3, -2, -1, 0\}$$

$$G = \{x \in \mathbb{Z}_+^* / x < 1\} \Rightarrow G = \{ \}$$

CONJUNTOS NUMÉRICOS - INTERVALOS REAIS

CONJUNTO DOS NÚMEROS REAIS – ($\mathbb{R}$)



CONJUNTOS NUMÉRICOS - INTERVALOS REAIS

CONJUNTO DOS NÚMEROS REAIS – $(\mathbb{R})$

$$A = \{x \in \mathbb{R} / 1 \leq x \leq 5\} \Rightarrow$$

$$[1, 5]$$

$$B = \{x \in \mathbb{R} / 2 < x < 4\} \Rightarrow$$

$$]2, 4[$$

$$C = \{x \in \mathbb{R} / -1 \leq x < 3\} \Rightarrow$$

$$[-1, 3[$$

CONJUNTOS NUMÉRICOS - INTERVALOS REAIS

CONJUNTO DOS NÚMEROS REAIS – $(\mathbb{R})$

$$\begin{aligned} D = \{x \in \mathbb{R} / 1 < x \leq 5\} &\Rightarrow \text{Diagram: a number line with an open circle at 1 and a closed circle at 5, connected by an orange line segment.} &&]1, 5] \\ E = \{x \in \mathbb{R} / x \geq 3\} &\Rightarrow \text{Diagram: a number line with a closed circle at 3 and an orange arrow pointing to the right.} && [3, +\infty[\\ F = \{x \in \mathbb{R} / x > 3\} &\Rightarrow \text{Diagram: a number line with an open circle at 3 and an orange arrow pointing to the right.} &&]3, +\infty[\end{aligned}$$

$$\mathbb{R} \Rightarrow \text{---} \longrightarrow]-\infty, +\infty[$$