.

Skupovi - vežbe

October 6, 2021

1. Dati su skupovi

   $A = \{1, 2, 3, 4\}$

   $B = \{x \mid x \in \mathbb{N} \land x \mid 8\} = \{1, 2, 4, 8\}$

   $C = \{x \mid x \in \mathbb{N} \land x \leq 2\} = \{1, 2\}$

   Odrediti: $A \cup B$, $A \cup C$, $B \cup C$, $A \cap B$, $A \cap C$, $B \cap C$, $A \setminus B$, $A \setminus C$, $B \setminus A$, $B \setminus C$, $C \setminus A$, $C \setminus B$, $\mathcal{P}(C)$, $A \times C$, $C \times B$, C^2 i napisati sve particije skupa C.

$A \cup B = \{1, 2, 3, 4, 8\}$

$A \cup C = A$

$B \cup C = B$

$A \cap B = \{1, 2, 4\}$

$A \cap C = C$

$B \cap C = C$

$A \setminus B = \{3\}$

$A \setminus C = \{3, 4\}$

$B \setminus A = \{8\}$

$B \setminus C = \{4, 8\}$

$C \setminus A = \emptyset$

$C \setminus B = \emptyset$

$\mathcal{P}(C) = \{\{1\}, \{2\}, \emptyset, C\}$

$A \times C = \{(1,1), (1,2), (2,1), (2,2), (3,1), (3,2), (4,1), (4,2)\}$

$C \times B = \{(1,1), (1,2), (1,4), (1,8), (2,1), (2,2), (2,4), (2,8)\}$

$C^2 = C \times C = \{(1,1), (1,2), (2,1), (2,2)\}$

PARTICIJA $\{\{1\}, \{2\}\}$

$\{\{1,2\}\}$