

Zadatak br.1 i br.2 - SKUPOVI

1. Dat je skup $S = \{a, b, c, d, e, f, g, h, i\}$ i njegovi podskupovi $A = \{a, c, e, f, h\}$, $B = \{a, b, c, f, i\}$, $C = \{b, d, e, h\}$. Odredi:
- a) $A \cup B$ b) $A \cup C$ c) $A \cup (B \cap C)$
- d) $B \cup C$ e) $A \cap B$ f) $A \cap (B \cup C)$
- g) $B \cap C$ e) $A \cap C$ f) $A \cap (B \cap C)$
2. Dati su skupovi $A = \{1, 2, 3, 4\}$, $B = \{-1, 0, 2\}$ i $U = \{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$. Odredi:
- a) $(A \cup B)^C$ b) $(A \setminus B)^C$
- c) $(B \setminus A)^C \cap (A \setminus B)$ d) $(A \cap B)^C \cap (A \cup B)$
3. Dati su skupovi $A = \{123\}$, $B = \{2, 3, 4\}$. Odredi:
- a) $(A \times A) \cap (B \times B)$ b) $(A \times A) \cap (A \times B)$
- c) $(B \times B) \cap (A \times B)$ d) $(B \times A) \setminus (A \times B)$