

1.- Sean $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ y $C = \{3, 4, 5, 6\}$, hallar:

- 1) $A \cup B$
- 2) $A \cup C$
- 3) $B \cup C$
- 4) $B \cup B$

Ejercicio 1.

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

$B = \{8, 2, 4, 6\}$

$C = \{3, 4, 5, 6\}$

$A \cup B = \{1, 2, 3, 4, 6, 8\}$

$A \cup C = \{1, 2, 3, 4, 5, 6\}$

$B \cup C = \{2, 3, 4, 5, 6, 8\}$

$B \cup B = \{8, 2, 4, 6\}$

2.- Sean $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ y $C = \{3, 4, 5, 6\}$, hallar:

- 1) $A \cap B$
- 2) $A \cap C$
- 3) $B \cap C$
- 4) $B \cap B$

Ejercicio 2.

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

$B = \{8, 2, 4, 6\}$

$C = \{3, 4, 5, 6\}$

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

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

$B \cap C = \{4, 6\}$

$B \cap B = \{8, 2, 4, 6\}$

3.- Sean $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ y $C = \{3, 4, 5, 6\}$, hallar:

- 1) $A - B$
- 2) $C - A$
- 3) $B - C$
- 4) $B - A$
- 5) $B - B$

Ejercicio 3.

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

$$B = \{8, 2, 4, 6\}$$

$$C = \{3, 4, 5, 6\}$$

$$A-B = \{1, 3\}$$

$$C-A = \{5, 6\}$$

$$B-C = \{8, 2\}$$

$$B-A = \{8, 6\}$$

$$B-B = \text{set}()$$

4.- Sean $U = \{1, 2, 3, \dots, 8, 9\}$, $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ y

$C = \{3, 4, 5, 6\}$, hallar:

1) A'

2) B'

3) $(A \cap C)'$

4) $(A \cup B)'$

5) $(A')'$

6) $(B - C)'$

Ejercicio 4.

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$$

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

$$B = \{8, 2, 4, 6\}$$

$$C = \{3, 4, 5, 6\}$$

$$A' = \{5, 6, 7, 8, 9\}$$

$$B' = \{1, 3, 5, 7, 9\}$$

$$(A \cap C)' = \{1, 2, 5, 6, 7, 8, 9\}$$

$$(A \cup B)' = \{9, 5, 7\}$$

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

$$(B - C)' = \{3, 5\}$$