

Nº 3.

$$a) A = \{n \mid n = 10^k, 0 \leq k \leq 2\}$$

$$b) A = \{n \mid (n > 5) \wedge (n \in \mathbb{Z})\}$$

$$b) A = \{n \mid (n < 5) \wedge (n \in \mathbb{N})\}$$

$$2) A = \emptyset$$

Nº 4.

$$a) A \setminus (A \setminus B) = A \cap B$$

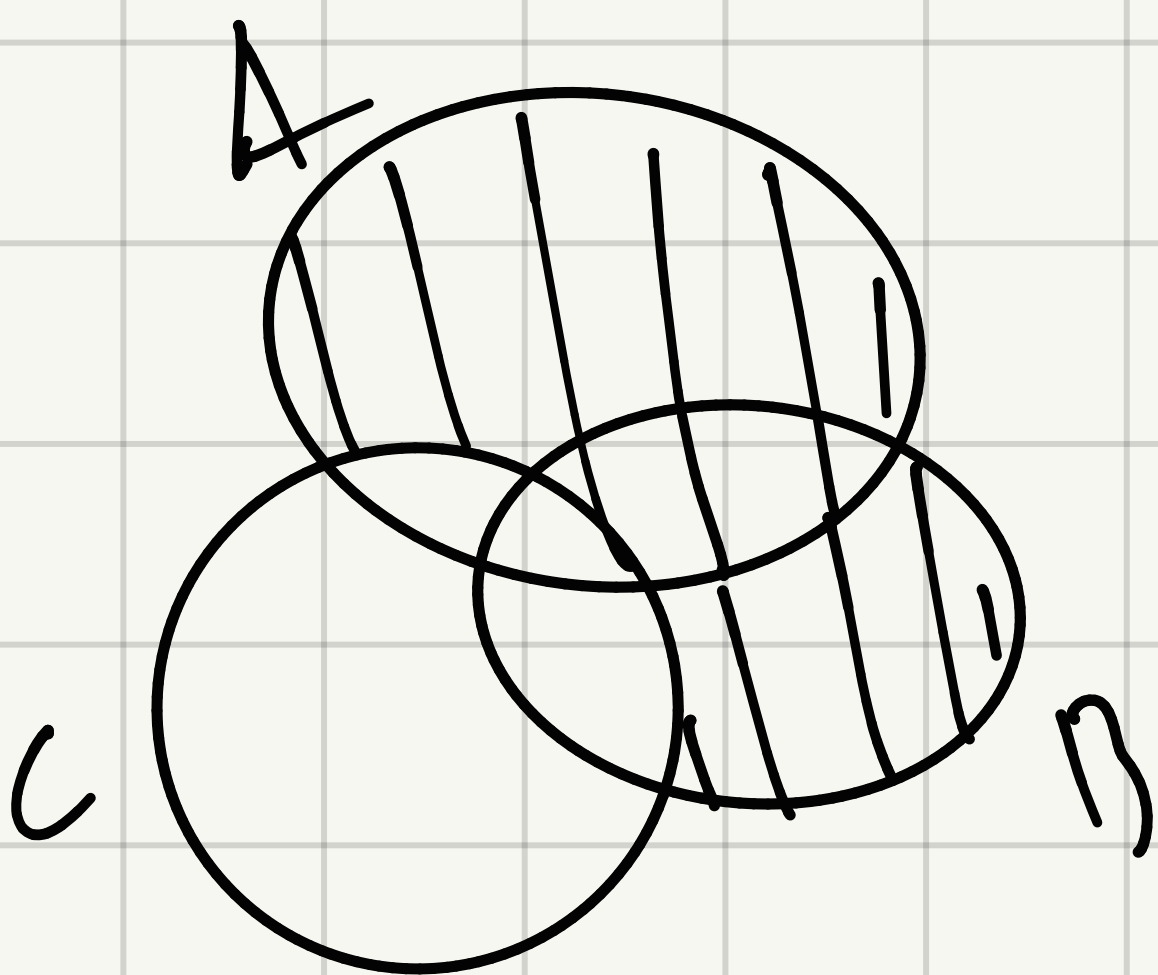
...

$$b) (a \vee b) \wedge \overline{(a \wedge b)} = (a \wedge \bar{b}) \vee (b \wedge \bar{a})$$

$$(a \vee b) \wedge (\bar{a} \vee \bar{b})$$

$$a \wedge \bar{a} \vee a \wedge \bar{b} \vee$$

$$2) (A \cup B) \setminus C = (A \setminus C) \cup (B \setminus C)$$



$$(A \vee B) \wedge \bar{C} = A \wedge \bar{C} \vee B \wedge \bar{C}$$

Nº 6

$$A \cap B \subseteq C \setminus (A \cup B)$$

$$(x \in (A \cap B)) \rightarrow (x \in (C \cap \overline{(A \cup B)}))$$

$$(a \wedge b) \rightarrow (c \wedge \overline{a \vee b})$$

$$\overline{a \wedge b} \vee c \wedge \bar{a} \wedge \bar{b}$$

$$\bar{a} \vee \bar{b} \vee c \wedge \bar{a} \wedge \bar{b}$$

$$\overline{(a \wedge b)} \vee (c \wedge \overline{(a \vee b)})$$

$$(\bar{a} \vee \bar{b}) \vee (c \wedge (\bar{a} \wedge \bar{b}))$$

