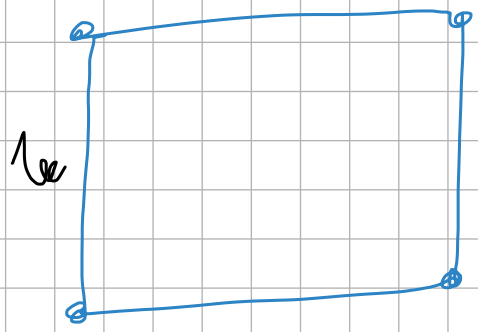
2^n I^n

\ кол-во вершин

$2^{n-1} \cdot n$ - кол-во ребер

$2^{n-2} \cdot n = 16$



4 в $\Rightarrow$ 12

8 в $\rightarrow$ 6 г

4 куба

2.

1) $|\{\varnothing\}| = 1$

2) $(x-1)(x-2)(x-5)$

$x^3 - 8x^2 + 17x - 10$

3) $y = \sqrt{x}$ $y = \frac{1}{\sqrt{x}}$

б) $\begin{cases} \cdot \frac{a_n + 1}{a_n^2} \end{cases} \Big| a_n \in N, a_n \geq 2$

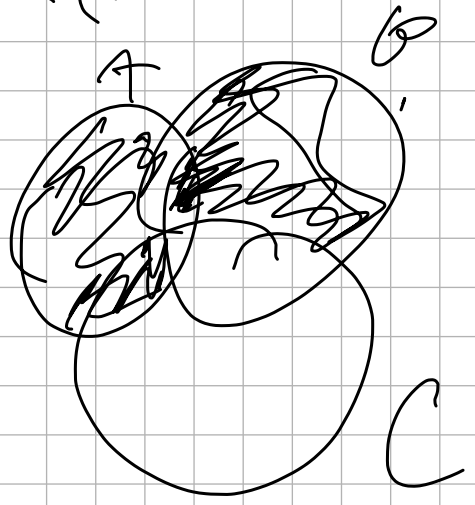
$\{3,14, 141, 415, 159, 592, 926\}$

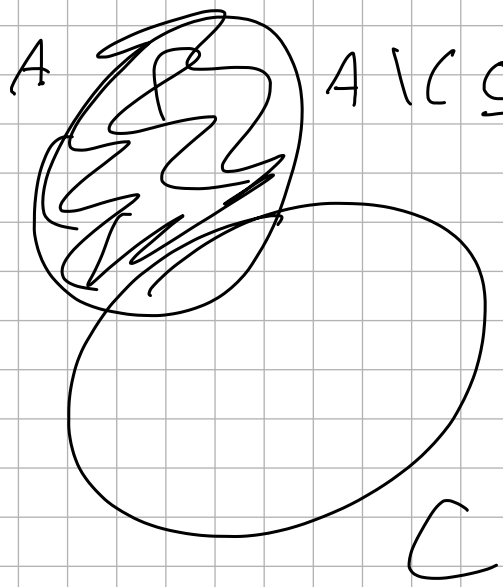
$\pi = 3,14159265\ldots$

$(A \triangle B) \triangle C$

31е) $(A \setminus C) \setminus (B \setminus A) \subseteq (A \setminus C) \subseteq$

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





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

Пусть $x \in A \setminus C \Rightarrow x \in A \quad x \notin C$

1) Пусть $x \in B \Rightarrow x \in B \setminus C \Rightarrow x \in \pi_1 \cup \pi_2$.

$x \notin B \Rightarrow x \in A \setminus B \Rightarrow x \in \pi_1 \cup \pi_2$

$A \cup (B \setminus C) \simeq (A \cup B) \cap (A \cup \bar{C})$

$A \cup (B \setminus C) = A \cup (B \cap \bar{C}) =$

$= (A \cup B) \cap (A \cup \bar{C})$

42) б) $(A \cup B) = B \Rightarrow A \subseteq B$

2) если $A \subseteq B$ $A \cap B = A$

$\parallel$

$\varnothing$

44 а) $(A \cap B \cap C) \triangle D = (A \triangle D) \cap$

$\cap (B \triangle B) \cap (C \triangle D)$

$A \cap B \cap C \cap \bar{D} \cup \overline{(A \cap B \cap C)} \cap D$

$\parallel$

$(\bar{A} \cup \bar{B} \cup \bar{C}) \cap D$

1) $x \in D$ Слева $x \notin A \cap B \cap C$

Справа $x \notin A$, $x \notin B$, $x \notin C$

Пусть $x \in A$, $x \notin B$, $x \in D$

Тогда $x \notin$ т. ч., $x \in$ д. ч.

56 а) $A \times B$ и $B \times A$

$A \times B = \{(1,0), (1,1), (1,3), (1,4), (1,8),$
$(3,0), (3,1), (3,3), (3,4), (3,8), (7,0), (7,1),$
$(7,3), (7,4), (7,8)\}$

$B \times A$

$\{1,3\} \times \{1,3\} = (A \times B) \cap (B \times A)$

$(A \times B) \cap (B \times A) = (A \cap B) \times (A \cap B)$