

Выясните, какие из следующих равенств являются верными. Сделайте половину этих заданий в с помощью кругов, а остальные - с помощью таблицы.

а) $(A \cup B) \cup C = A \cup (B \cup C)$.

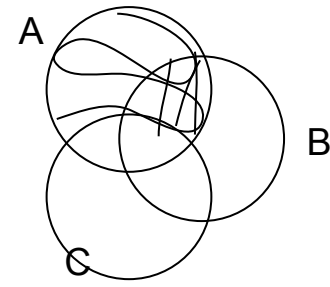
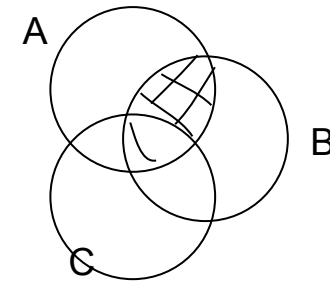
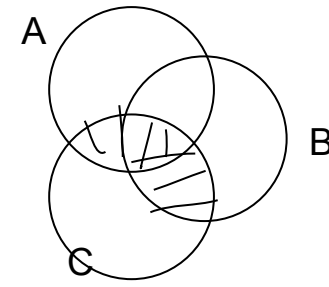
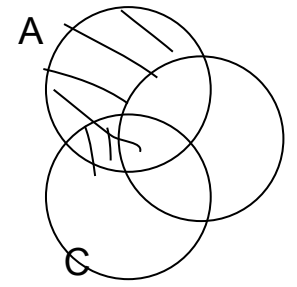
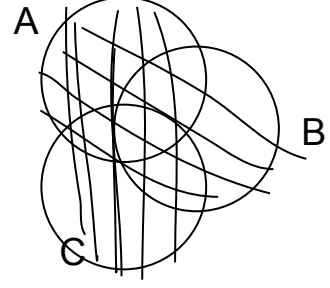
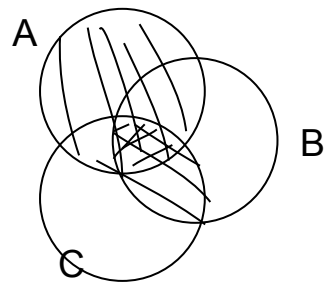
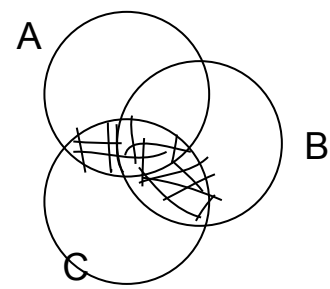
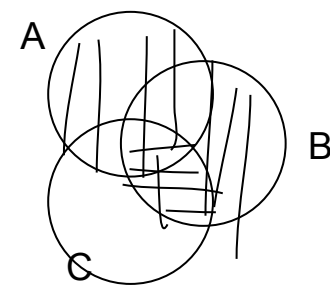
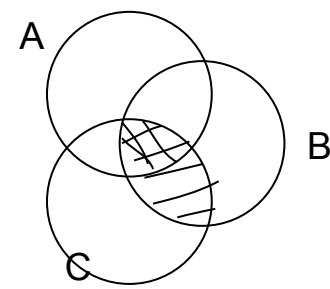
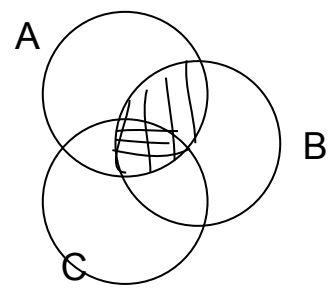
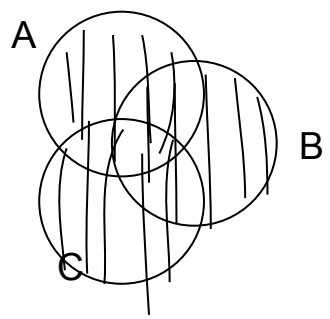
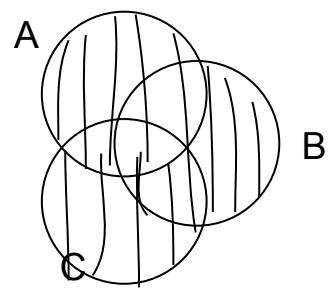
б) $(A \cap B) \cap C = A \cap (B \cap C)$.

в) $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$.

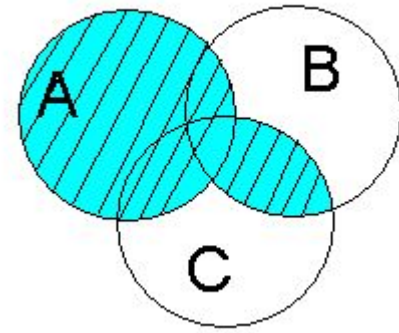
г) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.

д) $(A \setminus B) \cap C = (A \cap C) \setminus (B \cap C)$.

е) $(A \cap B) \setminus C = (A \setminus C) \cap B$



I II



а)

A	B	C	$A \cup B$	$B \cup C$
0	0	0	0	0
0	0	1	0	1
1	0	0	1	0
0	1	0	1	1
1	1	0	1	1
1	0	1	1	1
0	1	1	1	1
1	1	1	1	1

$I \cup C$	$II \cup A$
0	0
1	1
1	1
1	1
1	1
1	1
1	1
1	1

б)

I K

A	B	C	$A \cup B$	$B \cap C$
0	0	0	0	0
0	0	1	0	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
1	0	1	1	0
0	1	1	1	1
1	1	1	1	1

Z
I ∩ C A ∩ C K ∩ Z

0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
1	0	0
1	1	1