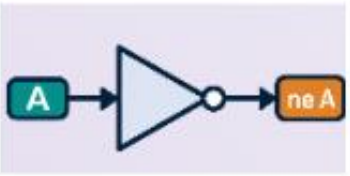
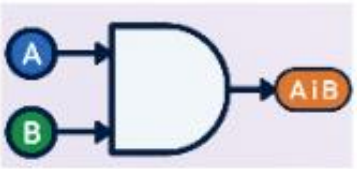
A	¬A
0	1
1	0

NEGACIJA



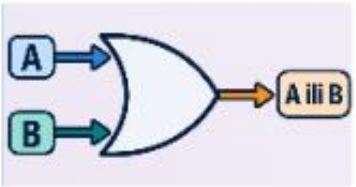
A	B	A i B
0	0	0
0	1	0
1	0	0
1	1	1

KONJUNKCIJA



A	B	A ili B
0	0	0
0	1	1
1	0	1
1	1	1

DISJUNKCIJA



ZADACI:

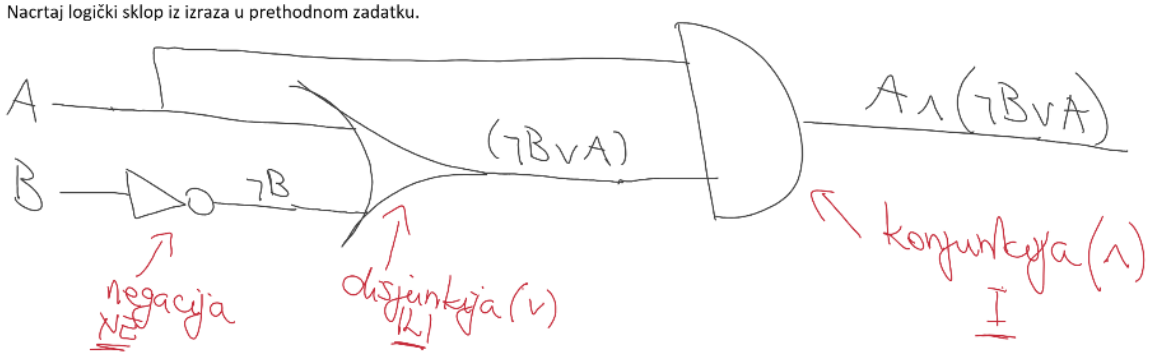
1. Zadan je logički izraz: $A \wedge (\neg B \vee A)$

   Ispuni tablicu istinitosti za taj izraz

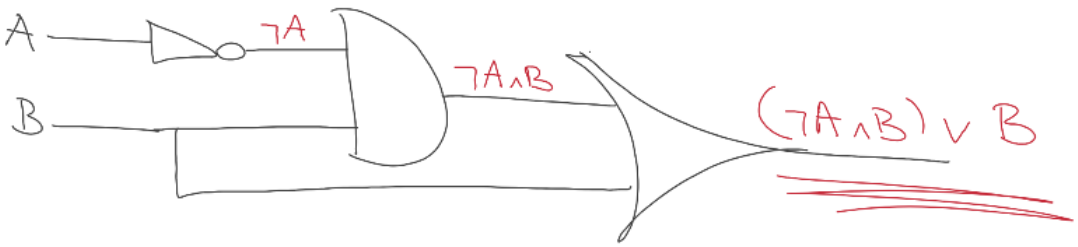
A	B	¬B	¬B∨A	A∧(¬B∨A)
0	0	1	1	0
0	1	0	0	0
1	0	1	1	1
1	1	0	1	1

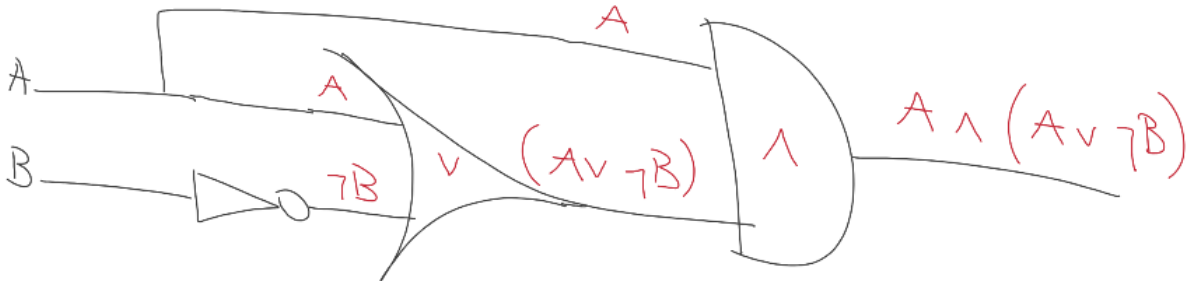
   Za koje ulaze, imamo istine na izlazu? (1,0) (1,1)

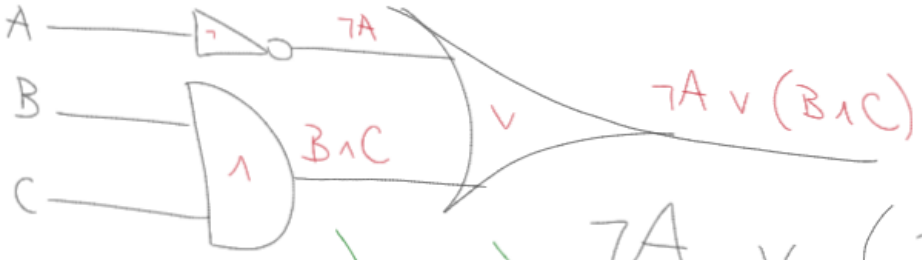
2. Nacrtaj logički sklop iz izraza u prethodnom zadatku.



3. Nacrtan je logički sklop. Zapiši ga u obliku logičkog izraza.







$\neg A \vee (B \wedge C)$

A	B	C	¬A	B∧C	¬A ∨ (B∧C)
0	0	0	1	0	1
0	0	1	1	0	1
0	1	0	1	0	1
0	1	1	1	1	1
1	0	0	0	0	0
1	0	1	0	0	0
1	1	0	0	0	0
1	1	1	0	1	1

JOŠ ZADATAKA

ZADATAK 1:

Zadan je složeni logički izraz: $(\neg A) \wedge B$

A)

A	B	¬A	¬A ∧ B
0	0	1	0
0	1	1	1
1	0	0	0
1	1	0	0

ili

B) $A \vee (\neg B)$

A	B	¬B	A ∨ (¬B)
0	0	1	1
0	1	0	0
1	0	1	1
1	1	0	1

C) $(A \wedge B) \vee B$

A	B	$A \wedge B$	$(A \wedge B) \vee B$
0	0	0	0
0	1	0	1
1	0	0	0
1	1	1	1

D) $(\neg A \wedge \neg B) \vee A = Z$

A	B	$\neg A$	$\neg B$	$\neg A \wedge \neg B$	Z
0	0	1	1	1	1
0	1	1	0	0	0
1	0	0	1	0	1
1	1	0	0	0	1

E)

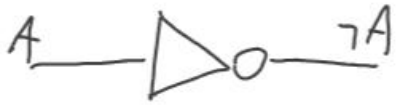
$A \vee (A \wedge B)$

ILI

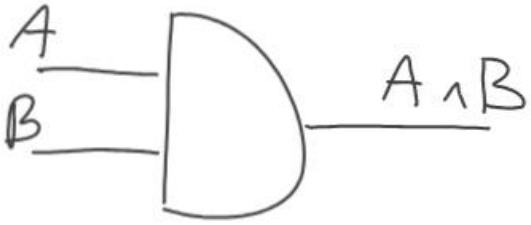
A	B	$A \wedge B$	$A \vee (A \wedge B)$
0	0	0	0
0	1	0	0
1	0	0	1
1	1	1	1

F) Nacrtaj sve simbole za logičke operatore:

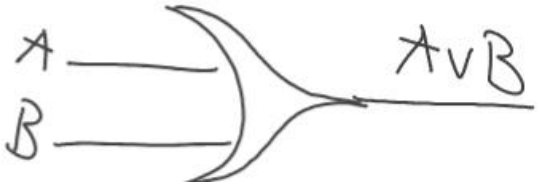
NEGACIJA ($\neg A$)



LOGIČKO I ($\wedge$)



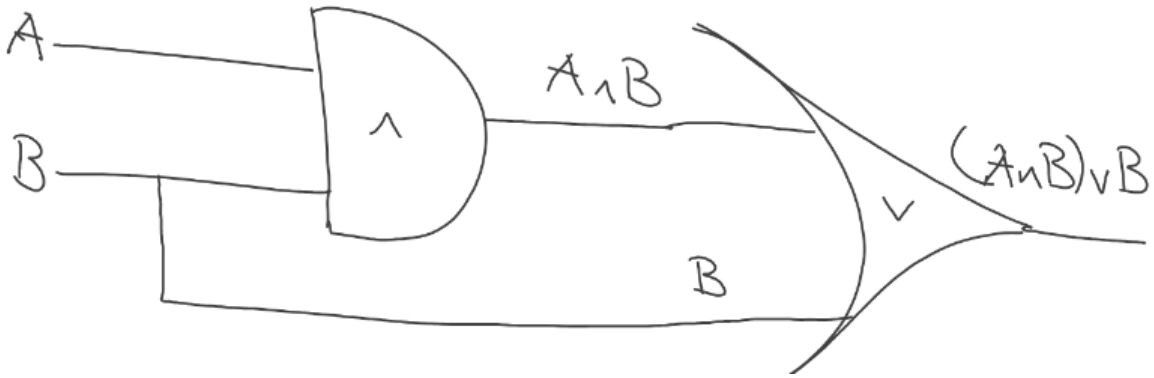
LOGIČKO ILI ($\vee$)



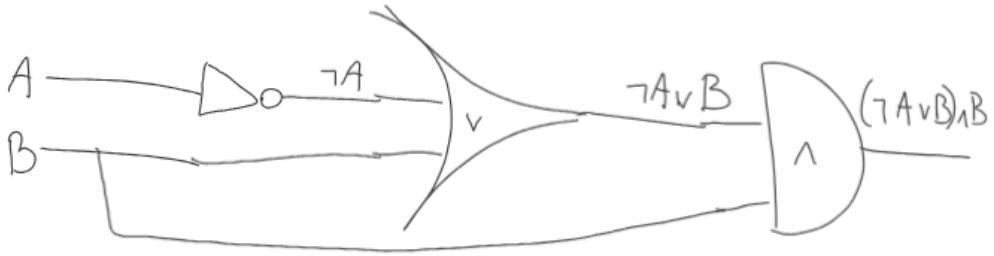
ZADATAK 2:

Zadan je složeni logički izraz kojeg moraš nacrtati uz pomoć logičkih simbola:

$$(A \wedge B) \vee B$$



$$(\neg A \vee B) \wedge B$$



$$(A \wedge \neg B) \wedge A$$

