

Group 1: Entailment

Group Member Names and Computing IDs

	Name	Computing ID
1		
2		
3		
4		

- Assemble into groups of approximately 3-4.
- Each person in each group should have their own paper, and one additional to be turned in.
- Put the names and computing ids of the members of your group at the top of the page on the paper to be turned in
- Go to <https://www.cs.virginia.edu/~emo7bf/cs2120/group1.html> and follow the guide there

Problem 1: Identify G

$G =$

Problem 2: Identify F

$F =$

<input type="text"/>	and	<input type="text"/>	share fact	<input type="text"/>
<input type="text"/>	and	<input type="text"/>	share fact	<input type="text"/>
<input type="text"/>	and	<input type="text"/>	share fact	<input type="text"/>

Problem 3: Complete the truth table

B	T	F	$\neg T$	$\neg B \rightarrow \neg F$	$B \rightarrow T$
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

Problem 5: Show $((B \rightarrow T) \wedge \neg T) \rightarrow \neg B \equiv \top$ **Problem 4: Name the rule****Problem 6: Why does $(A \oplus B) \wedge B \vdash \neg A$?****Problem 7: Two things you can conclude****Problem 8: Name the murderer!**