Group 1: Entailment

Name _____

Computing ID _____

Honor Notice:

– Assemble into groups of approximately 3.

– Each person in each group should have their own paper.

– Put your name and computing id at the top of this page

– Go to **https://https://www.cs.virginia.edu/∼emo7bf/cs2120/group1.html** and follow the guide there

Problem 1: Identify G

$G =$ [   ]

Problem 2: Identify F

$F =$ [   ]

[ ]	and	[ ]	share fact [ ]
[ ]	and	[ ]	share fact [ ]
[ ]	and	[ ]	share fact [ ]

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 4: Name the rule

Problem 5: Show $\left((B \rightarrow T) \wedge \neg T\right) \rightarrow \neg B \equiv \top$

Problem 6: Why does $(A \oplus B) \wedge B \vdash \neg A$**?**

Problem 7: Two things you can conclude

Problem 8: Name the murderer!