You MUST use good notation
and show appropriate work.

2.5A Verifying Arguments

1. Use truth tables to determine whether each of the following is a valid argument form.

a)
$$p \lor \sim q$$

$$\sim q$$

$$\therefore p$$

b)
$$\sim p \rightarrow (q \lor p)$$

 $\sim p$
 $\therefore q$

c)
$$p \rightarrow (q \lor r)$$

 $\stackrel{\sim}{} q$
 $\therefore p \lor r$

2.		Use the valid and invalid forms as listed on page 118 of your textbook. In each <i>i</i>) identify the form that applies, and <i>ii</i>) indicate whether the argument is valid or invalid.		
	a)	If it is raining outside, then it is cloudy. It is not cloudy. Therefore it is not raining outside.		
		Therefore it is not raining outside.	<i>i</i>)	
			ii)	
	b)	If you score 100% on each exam, then you will earn an A in this class. You did not score 100% on each exam. Therefore, you did not earn an A in this class.		
		Therefore, you did not earn an A in this class.	i)	
			ii)	
	c)	If I study hard, then I will not fail the test. If I do not fail the test, then I will get my driver's license. Therefore, if I study hard, then I will get my driver's license.		
			i)	
			ii)	
3.		e truth tables to test the argument given in problem 42, page 122, for validity.		