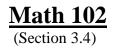
You MUST use good notation and show appropriate work.



Name _____

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

 $\sim q$
 $\therefore p \lor r$

Use the valid and invalid forms as listed on page 118 of your textbook. In each*i*) identify the form that applies, and *ii*) 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. <i>i</i>)		
			<i>ii</i>)
b)	If you score 100% on each exam, then you will earn an A in th You did not score 100% on each exam. Therefore, you did not earn an A in this class.		
		,	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)	
			<i>ii</i>)

3. Use truth tables to test the argument given in problem 42, page 122, for validity. First write down the argument form.