Name:	

** ATTEMPT EACH AND CHECK ANSWERS W/ YOUR BOOK. THESE ARE THE BOOK EXAMPLES FROM 1.5!

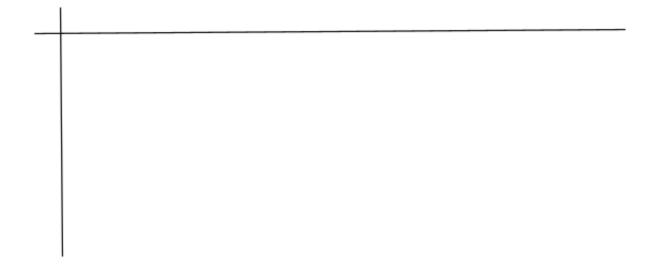
Argument: Consists of premise(s) and one conclusion.

<u>Validity</u>: An argument is **valid** if *the conclusion is guaranteed* under its given set of premises, and invalid otherwise.

- 1. If he is illiterate, he cannot fill out an application
- 2. He can fill out the application

Therefore, he is not illiterate (is literate)

- a) Define p and q, then put the whole argument into symbolic form.
 - p: He is illiterate
 - q: He can fill out the application
- b) Use a truth table to determine if the argument is valid or invalid.



c) Draw a Venn Diagram to support your claim above

Read from 1.5... take notes on the vocabulary word below.

Tautologies:

Math 107 Section 1.5

1	If tha	dafandant	ic innocent	the defendant	does not go to iai	il
Ι.	II the	derendani	is innocent	. the defendant	. does not go to iai	H.

- 2. The defendant does not go to jail.
- . Therefore, the defendant is innocent.

STEP 1 (DEFINE STATEMENTS):

p: The defendant is innocent

q: The defendant goes to jail

STEP 2 (SYMBOLIZE THE ARGUMENT):

1.

2.

••

STEP 3 (TRUTH TABLE):

Math 107 Section 1.5

Argument:

If it is a snake, then it is not warm-blooded. If it is a mammal, then it is warm-blooded. Therefore, if it is a snake, then it is not a mammal.

STEP 1 (DEFINE STATEMENTS):

p: It is a snake

q: It is warm-blooded

r: It is a mammal

STEP 2 (SYMBOLIZE ARGUMENT):

- 1.
- 2.
- :

STEP 3 (TRUTH TABLE):