Oct. 04, 2006

Pg 18: Exploratory: 1-6 (a)

	Antecedent	Consequent
1	It rains today	I will stay home
2	X + 3 = 7	X = 4
3	Joe earns an A in Math	He will be on the honor roll
4	Bill makes the free throw	The team will win
5	~~Garnet will date Paul~~ Mark is of of tan	Garnet will date Paul
6	The team has a good chance of winning	Either Ann or Pam pitches

Switch

Pg 18-19: Written: 1-23 (o)

1-15 read to class

17) $M \rightarrow \sim H$

19) $\sim J \rightarrow F$

21) $(C \vee H) \rightarrow S$

23) $\sim S \rightarrow (F \rightarrow C)$

1.5 cont.

Oct. 4, 2006

Write the following statement in symbolic form.

"If it is Raining Tomorrow,
Then I will either jog or go hiking."

Let r → It is raining tomorrow
j → I will jog
h → I will go hiking

$r \rightarrow (j \vee h)$

"r implies j or h"

"If r Then j or h"

ways to speak the symbols

Truth Value for Conditional

It is False

If True Then False

P = True

Q = False

$P \rightarrow Q$ $\quad$ $Q \rightarrow P$

$T \rightarrow F = F$ $\quad$ $F \rightarrow T = T$

Truth Table of Conditional

2nd 1st		1st 2nd	
p	q	p → q	q → p
T	T	T	T
T	F	F	T
F	T	T	F
F	F	T	T

p : Mr. G. teaches Math True

q : Mr. G works in Canfield False

T. U, only

$p \to q = T \to F = F$

$p \to \sim q = T \to \sim F = T \to T = T$

$\sim p \to \sim q = \sim T \to \sim F = F \to T = T$

$\sim p \to q = \sim T \to F = F \to F = T$

$q \to p = F \to T = T$

$\sim q \to p = \sim F \to T = T \to T = T$

$\sim q \to \sim p = \sim F \to \sim T = T \to F = F$

$q \to \sim p = F \to \sim T = F \to F = T$

O.T.L.

① pg 18-19: 1-23(o)

Det. Truth Value.

p = True

q = False

r = True