1.7 Cont.

Oct. 13, 2006

reference

Table 13

$\sim(p \wedge q) \rightarrow (\sim p \vee \sim q)$

p	q	$\sim p$	$\sim q$	$(p \wedge q)$	$\sim(p \wedge q)$	$(\sim p \vee \sim q)$	$\sim(p \wedge q) \rightarrow (\sim p \vee \sim q)$
T	T	F	F	T	F	F	T
T	F	F	T	F	T	T	T
F	T	T	F	F	T	T	T
F	F	T	T	F	T	T	T

write the Converse, Inverse and Contrapositive of . . .

Original: $\sim s \to r$

Converse: $r \to \sim s$

Inverse: $s \to \sim r$

Contrapositive: $\sim r \to s$

Write the converse, Inverse, and contrapositive of:

"If 3+2=6, Then Mars is a Planet"

Converse:

If Mars is a Planet, Then 3+2=6

Inverse:

If 3+2≠6, Then Mars is not a planet

Contrapositive:

If Mars is not a planet, Then 3+2≠6.

Find the Truth Value of the previous example's original, Converse, Inverse, & Contrapositive

Original: $F \rightarrow T = T$

Converse: $T \rightarrow F = F$

Inverse: $\sim F \rightarrow \sim T = T \rightarrow F = F$

Contrapositive: $\sim T \rightarrow \sim F = F \rightarrow T = T$

O.T.L.

Already done in theory

1. pg. 26: Exploratory: 1-11(o)
2. pg. 26-27: Written: 1, 3, 13, 15, 17, 21, 25-31(o)
3. Ch. 1 Test **Tuesday**

Notebooks Due Friday