

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: $\sim S \rightarrow R$

Converse: $R \rightarrow \sim S$

Inverse: $S \rightarrow \sim R$

Contrapositive: $\sim R \rightarrow S$

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 $3+2 \neq 6$, Then Mars is not a planet

Contrapositive:

If Mars is not a planet, Then $3+2 \neq 6$.

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

Original: $F \rightarrow T = \underline{\underline{T}}$ 

Converse: $T \rightarrow F = \underline{\underline{F}}$

Inverse: $\sim F \rightarrow \sim T = T \rightarrow F = \underline{\underline{F}}$

Contrapositive: $\sim T \rightarrow \sim F = F \rightarrow T = \underline{\underline{T}}$

O.T.L.

Already
done
in theory

① pg. 26 : Exploratory :
1-11(0)

② pg. 26-27 : Written :
1, 3, 13, 15, 17, 21,
25-31(0)

③ Ch. 1 Test **Tuesday**

Notebooks Due Friday