

121-130 → A

110-120 → B

94-109 → C

84-93 → D

83 ↓ → F

130*.84	120.9
130*.72	109.2
130*.64	93.6
■	83.2

Or means what math term: Disjunction

It is False when both are False

Symbol \vee

Example: $p \vee q$

Translation of Example: $p \text{ or } q$

41. "If, Then" means what math term: Conditional
42. It is False if True then False
43. If statement is called: antecedent
44. Then statement is called: consequent
45. Symbol \rightarrow
46. Example: $p \rightarrow q$
47. Translation of Example: If p Then q or p implies q

55. Complete the Truth Table.

x	u	$\sim x$	$\sim u$	$(u \wedge \sim x)$	$(\sim u \wedge x)$	$(u \wedge \sim x) \vee (\sim u \wedge x)$
T	T	F	F	F	F	F
T	F	F	T	F	T	T
F	T	T	F	T	F	T
F	F	T	T	F	F	F

56. Complete the Truth Table

s	t	$\sim t$	$(s \vee \sim t)$	$((s \vee \sim t) \rightarrow t)$	$((s \vee \sim t) \rightarrow t) \rightarrow$
T	T	F	T	T	T
T	F	T	T	F	T
F	T	F	F	T	F
F	F	T	T	F	T

56. Complete the Truth Table

s	t	$\sim t$	$(s \vee \sim t)$	$((s \vee \sim t) \rightarrow t)$	$((s \vee \sim t) \rightarrow t) \rightarrow$
T	T	F	T	T	T
T	F	T	T	F	T
F	T	F	T	T	F
F	F	T	F	F	T

Original:	$F \rightarrow T = \text{Ⓣ}$
Converse:	$T \rightarrow F = \text{Ⓣ}$
Inverse:	$\sim F \rightarrow \sim T = T \rightarrow F = \text{Ⓣ}$
Contrapositive:	$\sim T \rightarrow \sim F = F \rightarrow T = \text{Ⓣ}$

l. Truth Value of 22: $T \wedge \sim F = T \wedge T = \underline{\underline{T}}$