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Verifying Student ID: 1705035

Subject:

Chapter : 01

Section : 01

Exercise :01

Solution to Question No. 34:

a)

p	$p \oplus p$
T	F
F	F

b)

p	$\neg p$	$p \oplus \neg p$
T	F	T
F	T	T

c)

p	q	$\neg q$	$p \oplus \neg q$
T	T	F	T
T	F	T	F
F	T	F	F
F	F	T	T

d)

p	q	$\neg p$	$\neg q$	$\neg p \oplus \neg q$
T	T	F	F	F
T	F	F	T	T
F	T	T	F	T
F	F	T	T	F

e)

p	q	$\neg q$	$p \oplus q$	$p \oplus \neg q$	$(p \oplus \neg q) \vee (p \oplus \neg q)$
T	T	F	F	T	T
T	F	T	T	F	T
F	T	F	T	F	T
F	F	T	F	T	T

f)

p	q	$\neg q$	$p \oplus q$	$p \oplus \neg q$	$(p \oplus \neg q) \wedge (p \oplus \neg q)$
T	T	F	F	T	F
T	F	T	T	F	F
F	T	F	T	F	F
F	F	T	F	T	F