1.1

a)

p	q	p∨q	p⊕q	(p∨q) → p⊕q
T	T	T	F	F
T	F	T	T	T
F	T	T	T	T
F	F	F	F	T

b)

p	q	p⊕q	p∧q	(p⊕q) → (p∧q)
T	T	F	T	T
T	F	T	F	F
F	T	T	F	F
F	F	F	F	T

c)

p	q	p∨q	~~p⊕q~~ p∧q	(p∨q) ⊕ (p∧q)
T	T	T	T	F
T	F	T	F	T
F	T	T	F	T
F	F	F	F	

d)

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

e)

p	q	r	$p \leftrightarrow q$	$\neg p$	$\neg r$	$\neg p \leftrightarrow \neg r$	$(p \leftrightarrow q) \oplus (\neg p \leftrightarrow \neg r)$
T	T	T	T	F	F	T	F
T	T	F	T	F	T	F	T
T	F	T	F	F	F	T	F
T	F	F	F	F	T	F	F
F	T	T	F	T	F	F	F
F	T	F	F	T	T	T	T
F	F	T	T	T	F	F	T
F	F	F	T	T	T	T	F

5)

P	q	¬q	P⊕q	P⊕¬q	(P⊕q) → (P⊕¬q)
T	T	F	F	T	T
T	F	T	T	F	F
F	F	T	T	F	F
T	T	T	F	T	T