Week 04 Exercises

Given a state

$$s = \frac{\text{var} \quad p \quad q \quad r \quad s}{\text{val} \quad F \quad T \quad T \quad F}$$

evaluate the sentence

$$\bullet \neg ((r \lor \neg q) \land \neg s) \lor (\neg (\neg p \land q) \land s))$$

in the state, s.

Qs. 2

• Determine the DNF of the function, b(p, q, r), whose Truth Table is the following:

p	q	r	b(p,q,r)
F	F	F	T
F	F	T	F
F	T	F	T
F	T	T	T
T	F	F	F
T	F	T	F
Τ	Τ	F	F
T	T	T	F

2 Simplify the function, b(p, q, r),