CENG 115 - Discrete Structures

Homework 1

October 17, 2022

Exercise 1 Propositional Logic

a. 7/(95)

b. p(78) 1 7p(96)

C. (p(70)) 1 7p(75)) -> q(CC)

d. (((7/(100) / p(90)) -> q(AA)) ((7/(30) / p(85) -> q(BA)) (BA))

((¬p(85) ∧ p(80)) → q(BB)) ⊕ ((¬p(80)) ∧ p(¬F5)) → q(CB)) ⊕

((7p(75) 1 p(70))→ q(CC)) ⊕((7p(70) 1 p(65)) → q(DC)) ⊕

((7p(65) A p(60)) → q(00)) ⊕((7p(60) A p(55)) → q(FD)) ⊕

((7p(55) Ap(01) -> q(FF)))

Exercise 2 Truth Tables

	10	19	7P	79	(-p V9)	(pV79)	(PF Va) 1 (PV 79)
a.	F	F	T	TF	T	F	T
	T	F	F	T	F	T	F
	T	T	P	F	T	T	T

