Nhi Ngice Hong Pham ID: 026078856

Part 2
2a) 1. (avb) (crd)
2. 70
3,70
4. TTTC (3, double negation)
5 TITC V Td (4, addition)
c 7 (77c 1d) (5, De Morgan)
7 - (c Ad) (6, double negation)
8. avb (7,1)
9 6 (8,2)
2b) 1. Ashum: f(0)=0, f(1)=2, f(n) = f(n-1) + 3f(n-2) + 4, and f(n)
equals an odd number for some n <0
2. However: the least value in four which f(n) is defined is n=0
as f(0) = 0. a It contradicts with the assumption of f(n) for some
n <0. Therefore, for every n>0, f(n)-f(n-1)+3f(n-2)+4
equals an even number