

100000 5) (3x) NOTO(X) AND ((3y) OR TO((X))) 6) axesq (c, 5, "A") AND snag(5, "c. Brown", A, P) b) NOT (JC) (SU (C, S, "A") AND

Snap (S, "C. Ban", A, P) a) (4x) (AX) (loves (X,X)): F which domain? T: (X) TOUF (X) : 7= (X) 9 (d) = 7= (X) 9 (d) 7: (X) (XY) + (X) (XE) () (((x,x) KND ((x,2)) > (x,2): F a) a: p(x) b 9(x) 4 (a OR b)= (b ORa) -3 T b) a: p(x, y) Idempotence low a a ob) implication with AND and OR 4 (a > FALSE) ENOT a > T

1(15 M) July 40 (((x)) 6(x)) AND ((x)) ON AM (M, 2)) 5) (3x) (p(x) on q(x) on (a)) . 2 10) D(#X) (&(X,X) ON O(X,X)) -D(3x)(Ax)(6(7,4)) on 6(x,x)) 11) Des, because the law asserts that the quantities 3x (SM) & NO (NOGONA (NOG TOCK) ME (YE) (XE) (KE) (x) AO (x) on (X) (XE) (XE) (4E) (4 13) (Q, x) (Q, x) (E -> F), E and F connot 14) (AX) (AX) (DOT 6(X,X) OW 6(XX) 15) Yes, because it would assume there is a toursday for all X in E X -