Hssignment 9 Justin Kim (1) (N) (AVEZ) (NO) a/b ⇒ is an amount, le K=9/b TIR) <>> 16=a 3) a 10 2) (a) 0/7 false. Suppose the. Then (70 = 7) setting q=0, we have 0=9:a Suppose time. Then $(4) \in (4) = 7$ ala ala Bue any number times 0 is 0, a controller setting 9 = 1, a = 1a(b) 910 f(a)(b) 9/0 Hire. Suppose all Then (IgeZ) (9=qa) 9.0=0 prove a 1 => 9I1 (c)010 tie? 0.0=0 orang # for that matter Suppose 9 # 11. Then \$ 967/ (d) 1/1 tre. 1-1=1 1=qa b(c 9= =, and =91 Nou if ot , then 9=\$1. (e) 7 44 False 44=7.6+2 (c) I fall / cld, then gold (forces) (f) 7/ (-42) /True)-42=7-(-6) If alb 1 cld, = q, gze Z sch the (h) (-7) (-56) (-7)(8) (i) (KeZ)(11n7 Then bd = (q,q,)qC Since q,q,ell, True Suppose False. Then uclbd. For CFO. (FELL) (Itn) Then AgeZ (d) If all Able then alc (bes) such that log=n but q=n h=q,a C=q=b mokes top - true, a controller. De = 9,9 & a Gr b &0 So Tree (j) (HneN) (n/o) tre-C=(9,92)9 S= 9/C Suppose false. Then (3 not) (nfo) (746N) (0=ng) but if q=0, then it holds, a contradiction.

Assignment 9 (e) [alb/bla] (=> 9tb Suppose alb / bla ZqiqzeZ such that b=q,a /\ a=q2b ab= 9,929b 1 = 9,92 So 9,9=±1 So 9=16 Soppose a= ±b. If q=b, all since clc Hc le a=-b, then all since gat-(f) (f alb / b+0, then lal ≤ (b) b=99. 161=19/1a1 50 lb| ≥ lal (q) (f alb / alc then 9 (6x+cy) Sippose alb / alc. Then a=q.b / b=q19 A C=q29 bx= q,xa cy= q24 a (b x+cy) = (q, x+q2y)9 So a bxtcy

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