Homework Solutions: Delta Epsilon Proofs Assignment I

Olim (2x+7)=13 (D. lim x33 (2x+7)=13 (D. lim porto (3x+10)=-2 @ h= (-5x+14) Diteso Senech for & Search for d 1510-11 <8 Fix -1 28 -> (3×110)-6-1)100 = (-5x+1+1)-(-4) 25 Ifes-LICE= -2 | 3× + 12 | × 6 -5++20/20 (2×+7)-13/ <6 -> 13(x+4)/ <0 ->]-=(x-4)) 20 -> 1311 X+41 < 6 2x-6/26 -> 1x-(-4)1 = 0 => 1-51 |x-4| 2 t => 1×-41 × 5 Choose &= 151 Chuose S= Fel DVasity this & I Verity this I Octa-ales -> Or Xmale 8-2 Chever S=121 → |x- (-4) < E -> X-4 1 < 1-51 -> 3 1x-6-4) = E (II) Varily this 8 => |-5| | x-4) < 5 -> /3x+12/<6 => 1-5x +201 26 ac/x-a/com => 13×+10-10+12 <6 -> 1-5x+14-14+20/26 → 1(3×+10)+2/16 ~ /x-3 < 1 al => (-5x+14)+6 26 => /2/1×-3/16 => |(3x+10)-(-)) < E => /2(x-3) / × 6 => ((-5×+14) - (-6) < 6 -> | Sin - L/ <64 -) | 2x-6 < E => |fix)-L/26-=) | 2x+7-7-6 | 26 => 1 (2x+7)-13/26 => / fix)-L/ < 6 -

4 Delin (mrib) = Emarte) 1 = (-7x-7)=0 ((-1x-7)=1 x+1(3) DLet 020 Dieteso Dieteso I Search for S E Search for d I Search for 8 We want We Want No Wait Gin- 4/24 1fin-1 26 (mytb) -(matb)) e E 151x3-2/26 1 (-4x-7)-1/26 1(-7x-7)-01×6 MX+b-ma-b <t 1-48-8/26 1-7x-7/20 1-4(x+3) 26 Imx-me +b-blet K-7X x+1) 26 1-4/ X-1-33 26 1-7/1X-(-1)/ <6 (m(x-A)) 26 1x-(-)) < = · |x-(-1)| < e 1-71 1m1 1x-a/26 Chase 8= 9-41 Churse S= E IX-al < imi E Choose of = imi Drevity this S D. Verifythis S 02/X-2/28 => DVerity this 8. 0 = 1x= 1 = 5 -> -> (x-(-2)) < 1-41 02 X-01 28 => - 1x-al x 1ml -> |-4/ |X+2 | 26 => (-7) (X-(-1)) 2 6 => |-4x-8| 16 => 1m | |x-a | < 5 => /-7x-7/ <6 -> | -4x -7++-8 < E -> [m(x-a)] < 6 -> (E7x-2)-0/<6 => ((-4x-7) -1 | 26 -> | mx - ma | 16 => | fixs - L | 26 --> | fix) - L / 16--) mx+b-b-ma 16 => (mx+b) - (ma+b) < E -> fix) - L / 16 -