Assignment 1 Part 3 (posted 02/08/2024, DUE as assigned on Canvas)

Score (by grader):

(Den't have to type but must be legible - no credits for any parts difficult to read/understand.)

8 (7 points) First represent unsigned decimal real number 76.78125 in binary, then re-write the binary result more compactly in sex

Fill in the blanks: 76.78125 (doc) = 1001100,11001 (bin) = 46.63 (max)

CAUTION Be sure to clearly show working to not risk incurring penalty.

76	0.78125	100/1100/1100/1000
76/Z = RO 38/Z = RO 19/Z = RI 9/Z = RI 4/Z = RO 2/Z = RO 1/Z = RI	0.75125 2 1.5625 2 1.125 2 2 1.0	4 6 6 8
1001100	1.0	

9 (8 points) Represent the decimal value -413.35 in IEEE 754-1985 double precision. Show your final answer in hex. CAUTION: Be sure to clearly show working to not risk incurring penalty.

413 413/2 : R1	0.35	110011101.010110 = 1.100111010101010.2 Brased exponent = 8-1023 = 1031	
206/2 = R0 103/2 = R1 51/2 = R1 25/2 = R1 12/2 = R0 6/2 = R0 3/2 = R1 1/2 = R1 1/2 = R1	0.7 2 1.4 2 0.8 2 1.6 2 1.7 2 0.4 2 0.8 2	1031/2 - R1 515/2 - R1 257/2 - R1	ODO O O O O O O O O O O O O O O O O O O

CALTION Be stere to relearly show working to not risk mounting penalty.

(More writting space where needed - if used, be sure to clearly indicate which part is for which question.)