



Name:

Date:

Section:

Grade:

3.0 Problem Set #3 - Floating Point Representation

3.1 Instruction: Complete the table below [40 pts]:

3.1.1 Represent **0 . 90625**₁₀ in IEEE Single Precision and fill in the blanks:

Normalized form in Binary	=	
Value of S	=	
Value of E'	=	
Value of M	=	
IEEE Single Precision in Hexadecimal	=	

3.1.2 Find the decimal value represented by **C032 8000 0000 0000**₁₆ in double precision and fill in the blanks:

Normalized form in Binary	=	
Value of S	=	
Value of E'	=	
Value of M	=	
Decimal value represented	=	