

PROBLEM 1 (WORKING WITH DIFFERENT BASES) For each number $(abcd)_p$ in base p below, convert it to the requested base

(a) $(123)_{10} = (\quad)_8$

(b) $(CAFE)_{16} = (\quad)_{10}$

(c) $(447)_8 = (\quad)_{16}$

(d) $(1023)_{10} = (\quad)_2$

PROBLEM 2 (FLOATING POINT NUMBERS) Answer the following:

(a) What is the decimal real value of the following **single precision floating point** binary number
0 01111100 011000000000000000000000?

(b) What is the largest positive normal single precision number?

(c) What is the smallest **negative** subnormal double precision number?

PROBLEM 3 How many hours did you spend for this assignment?

PROBLEM 4 Document your collaboration here.