Problem #6: Conversion:

a) 2.875 \$ 0.1796875 from base 10 to 2,8,16

$$\frac{2.875}{0} \Rightarrow ?2.875 = 10.1112$$

$$\frac{0010}{0.1112} \Rightarrow .875 \times 2 = 1.75 \Rightarrow 1$$

$$\frac{0010}{0.1112} \Rightarrow .75 \times 2 = 1.50 \Rightarrow 1$$

$$\frac{0010}{0.1112} \Rightarrow .000 \Rightarrow 1$$

$$\frac{0010}{0.1112} \Rightarrow .000 \Rightarrow 1$$

$$\frac{0010}{0.1112} \Rightarrow .000 \Rightarrow 1$$

$$2.875_{0} \rightarrow 10.111_{2} \rightarrow 2.7_{0}$$

$$2.875_{0} \rightarrow 10.111_{2} \rightarrow 2.7_{0}$$

$$2.7 \rightarrow 10 = 2$$

$$2.7 \rightarrow 10 = 2$$

$$10 = 2$$

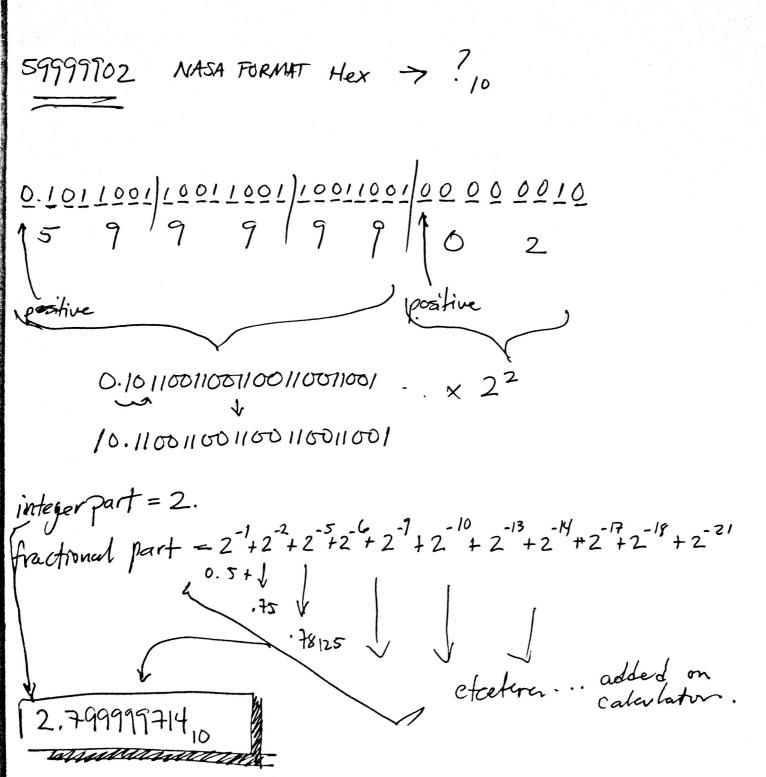
$$11 = .7_{8}$$

Base lle

$$\frac{2.875}{0.01110} \rightarrow \frac{10.111}{2} \rightarrow \frac{7}{816} \rightarrow \frac{2.E_{16}}{1}$$

59999901 NASA FURMAT HEX -> ? 6.101 1001 1001 1001 1001 1001 1001 0000 0001 positive 0.1011001100110011001 x 21 1.0710011001100110011001 integer part = 1. fractional pat = $2^{-2} + 2^{-3} + 2^{-4} + 2^{-7} + 2^{-10} - 11 - 14 - 15 - 18 - 19 - 22$. 25+ ↓ . 318 ↓ .390625 etcetera... added on calculator... 399991857,0

(3)



A66667FE NASA FORMAT HER -> ?10

-1.0100110011001100111

-101.001100110011001100111

integer part = -5. Fractional Part = $\frac{2^{-3}-4}{12^{-7}+2^{-7}+2^{-8}-11}$ - $\frac{12}{12}$ - $\frac{15}{12}$ - $\frac{19}{12}$ - $\frac{20}{12}$ - $\frac{20}{12}$

-5.200000286