Exerace note #1

a)
$$\rightarrow$$
 #1. base 7. $7^4 7^3 7^2 7^1 7^2$ (5 bits) 2401 343 49 7 1

b)
$$2AA3_{16} \rightarrow 6$$

$$0010 \quad 1010 \quad 1010 \quad 0011 = 001010101010100011_{2}$$

$$2 \quad A=10 \quad A=10 \quad 3$$

$$= 2^{13} + 2^{11} +$$

c)
$$4B_{16} \Rightarrow 10$$

$$0100 1011 = 01001011_{2} = 2^{6} + 2^{3} + 2' + 2^{0}$$

$$4 \quad B = 11$$

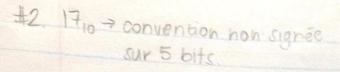
$$= 75_{10}$$

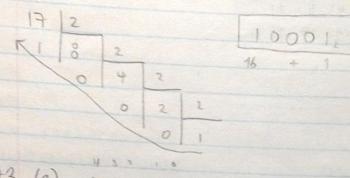
$$4B_{16} \rightarrow 001/001/01$$
 or $\frac{75}{64}$ (113)₈

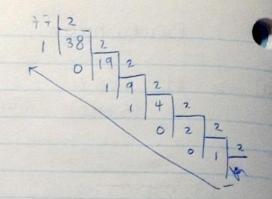
$$(1 \ 1 \ 3)_{8}$$

$$\frac{8}{3}$$

$$=0\times3F3$$







#3. (a) 61101

$$2^{\circ} + 2^{2} + 2^{3} = 1 + 4 + 8 = \boxed{13_{10}}$$

$$43^{2} \cdot 0$$

$$10011$$

$$2^{\circ} + 2^{1} + 2^{1} = 1 + 2 + 16 = \boxed{19_{10}}$$

#4. IFEE 754, 64 bits

$$3_{10} \rightarrow 11_{2}$$
 $0.15_{10} \rightarrow 0.15 \times 2 = 0.30$
 $0.30 \times 2 = 0.60$
 $0.60 \times 2 = 1.20$
 $0.20 \times 2 = 0.40$
 $0.40 \times 2 = 0.80$
 $0.40 \times 2 = 1.20$
 $0.60 \times 2 = 1.20$
 $0.20 \times 2 = 0.40$

b. 40x 2 = 0.80

répétition

601001

 $0.80 \times 2 = 1.60$ 3.15₁₀ = 11.001001₂

normausation 1.1001001₂ × 10¹

normalisation 1.00 x 102

 $e^2 = 2 + 1023 = 1025_{10} = 1024 + 1$ 100000001_2

1 1000000001,0000.

#5. 10,2,3,4, 1x chaque +,-,*. le 3 de caractères possibles.

> 10 - (2·3) + 4 10 - 5 + 4 5 + 4

10+4-(2.3)

#6 p. montant du prêt n: nb de mois 1 taux d'intérêt annuel en 1 m montant