## Lista 1- ICC Aluna: Anna Gabriele Marques de Oliveira

a)  $23758 = 2 \times 8^3 + 3 \times 8^2 + 7 \times 8^4 + 5 \times 8^\circ = 2 \times 512 + 3 \times 64 + 7 \times 8 + 5 \times 1 = 1024 + 192 + 56 + 5 = (1277)_{40}$ 

b) 548 = 5 x 84 + 4 x 8° = 5 x 8 + 4 x 1 = (44) to

c) $(101101)_2 = 1 \times 2^5 + 0 \times 2^4 + 1 \times 2^3 + 1 \times 2^2 + 0 \times 2^4 + 1 \times 2^6 = 32 + 0 + 8 + 4 + 0 + 1 = (45)_{10}$ 

d)  $(11100100)_2 = 1 \times 2^7 + 1 \times 2^6 + 1 \times 2^5 + 0 \times 2^9 + 0 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 = 128 + 64 + 32 + 4 = (228)_{10}$ 

e) (2D9) 16 = 2 × 16² + D × 16¹ + 9 × 16° = 2 × 256 + 13 × 16 + 9 × 1 = 512 + 208 + 9 = (729) 10. Levandor-se em Consideração que (D) 16 = (13) 10.

f) (5 F) 16 = Fx 16° + 5x 16¹ = 15x 1 + 5 x 16 = 15 + 80 = (95) 10. Sabendo que (F) 16 = (15) 10

9)  $(101,011)_2 = 1 \times 2^{-3} + 1 \times 2^{-2} + 0 \times 2^{-1} + 1 \times 2^{0} + 0 \times 2^{1} + 1 \times 2^{2} = 0,125 + 0,25 + 1 + 4 = (5,375)_{10}$ 

h)  $(11,1001)_2 = 1 \times 2^1 + 1 \times 2^0 + 1 \times 2^1 + 0 \times 2^2 + 0 \times 2^3 + 1 \times 2^4 = 2 + 1 + 0,0625 + 0,5 = (3,5625)_{10}$ 

i)(34,1A)16 = 3×16<sup>1</sup> +4×16°+1×16<sup>-1</sup> + A×16<sup>-2</sup> = =48+4+0,0625+10×0,00390625 = =(52,1015625)10. Sabendo que (A)16 = (10)10

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 $(23,074)_{16} = 2 \times 16^{1} + 3 \times 16^{0} + 0 \times 16^{-1} + 7 \times 16^{-2} + 4 \times 16^{-3} =$ = 32+3+0,0625+0,2734375+0,000976562 = = (35,336914062)10.

 $2(42,102)_8 = 4 \times 8^1 + 2 \times 8^0 + 1 \times 8^{-1} + 0 \times 8^{-2} + 2 \times 8^{-3} =$ = 32+2+0,125+0+0,00390625=(34,12890625)10.

m)  $(852)9 = 8 \times 9^2 + 5 \times 9^1 + 2 \times 9^0 = 81 + 45 + 2 = (128)_{10}$ 

n)(34) = 3×51+4×5°=15+4=(19)10.

 $(201)_3 = 2 \times 3^2 + 0 \times 3^1 + 1 \times 3^0 = 18 + 0 + 1 = (19)_{10}$ 

P) (425,6) = -4 x 72 + 2x 72 + 5x 70 + 6x 72 = 196 + 14 + 5+ +0,857142857 = (215,857142857)10.

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