

Sistemas de Procesamiento de Datos

TP: Sistemas numéricos – Cambio de base – Reales son signo

Ejercicios resueltos

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Ver 2020

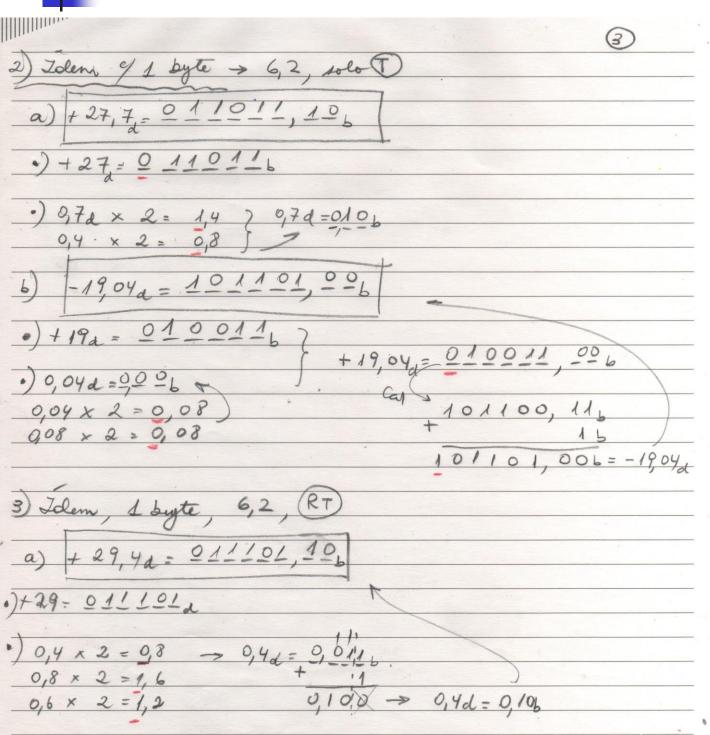




```
Expresar en Ca2, mínimo cant de bils
   +31,6015625d= 011111,1001101 b
 ) + 31 = 01/1/1/b
·) 0,6015625 x 2 = 1,203125
  0,203125 x 2 = 0,40625
  0,40625 x2=0,8125
  0,8125 × 2= 1,625
  0,625 × 2= 1,25
  0,25 × 2 = 0,5
  0,5 × 2 = 1,0
b) -610, 94 1406252 = 10.1100-11101,000011116
·) +610 = 01001100010 b
                               + 610,94140625 =
·) 0,94140625 x2 = 1,8828125
  0 8828125 x2 = 1,765625
                                = 01001100010,11110001
  0,765625 × 2= 1,53125
  0,53125 × 2 = 1,0625
  0,0625 x 2= 0,125
             x 2= 0,25
  0,125
                                  10110011101,000011111
  0,25
             x2 - 1,0
  0,5
```

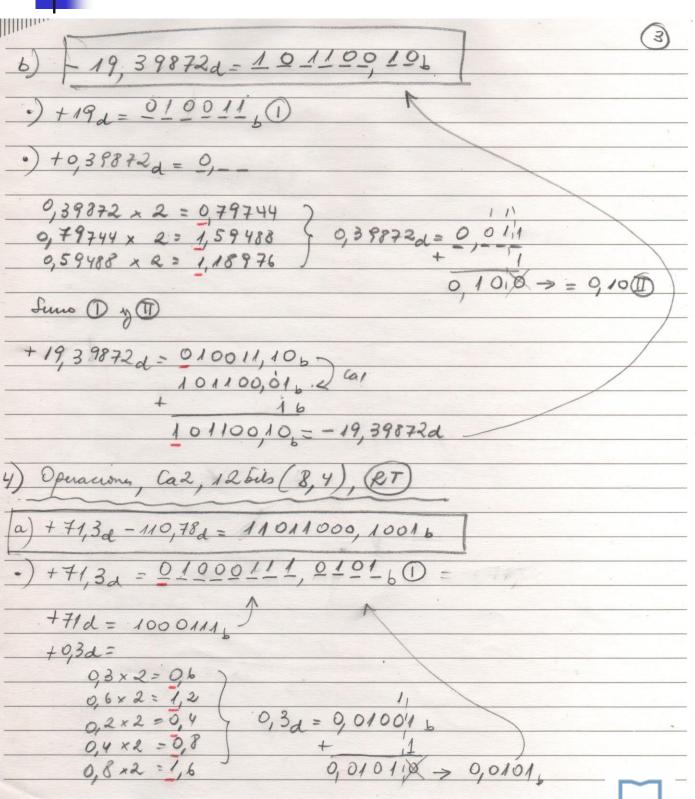




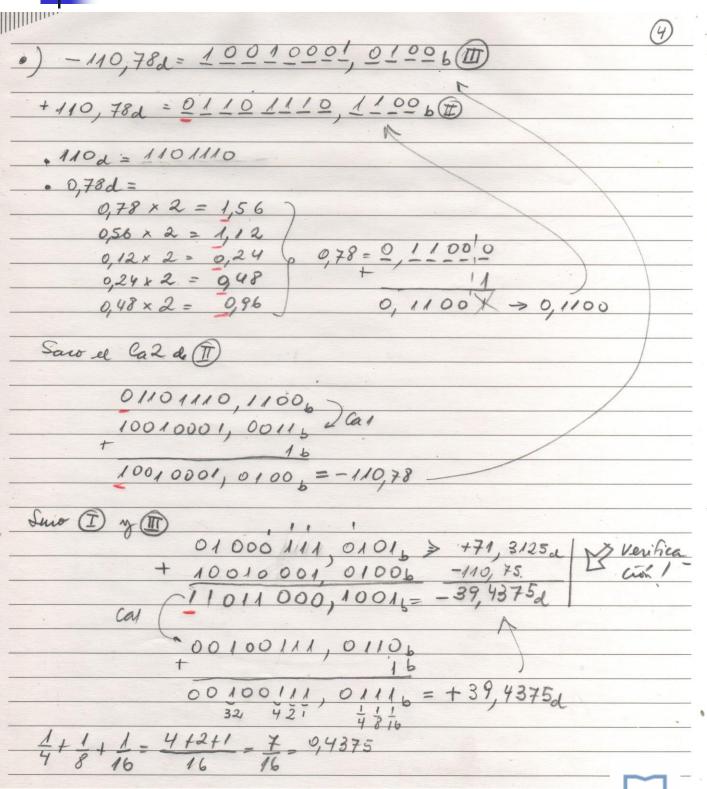




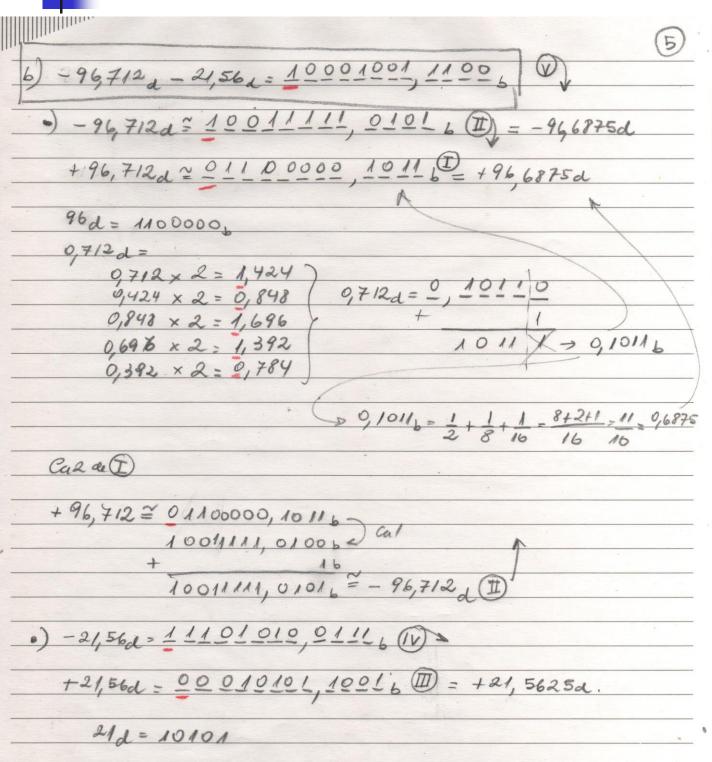






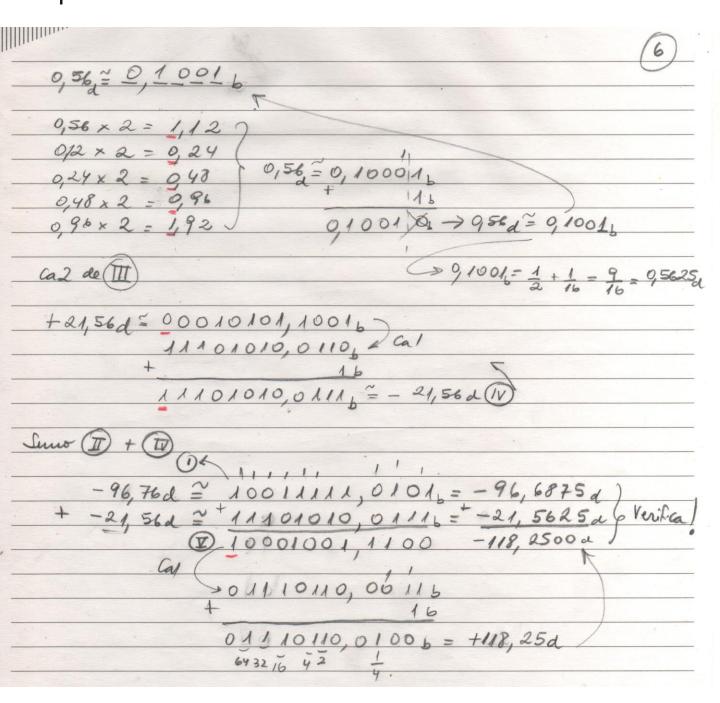
















```
+44,81a + 8,63a = 00110101,0111 = +53,4375a
-) +44,812 =00101100, 1101b = +44,8125d
   · 442 = 101100L
   · 0,8/d=
       0,81 x 2 = 1,62
       0,62 ×2 = 1,24
       0,24 x2 =0,48
       0,48 x2 = 0,96
       0,96 x2 - 1,92
                         0,1101 = 1 + 1 + 1 = 8 + 4 + 1 = 13 = 0,8125,
+8,63, ~ 00001000, 1010b = +8,625d
 -) 8d = 1000b
  -) 0,63d
        0,63 x2=1,26
                         0,63=0,1010
        0,26 x2=0,52
       0,52 x 2 = 1,04
                               0, 1010 0, 10106
        0,04 x 2 = 0,08
        0,08 x 2= 0,16
                         0,10106=1,1=4+1=5-0,625d
Suno Dy I
            +00001000,1010b + 8,625d Venilia
              0011010101111 = +53,43752
                            \frac{1}{4} + \frac{1}{8} + \frac{1}{10} = \frac{4+2+1}{10} = \frac{7}{10} = \frac{9,4375}{10}
```



