Taller 8 - Daniel Amado.

1. a) $476 \rightarrow 1DC$

$\frac{476}{16} = 29$, residuo $12 \rightarrow C$

$\frac{29}{16} = 1$, residuo $13 \rightarrow D$

b) $47 \rightarrow 2F$

$\frac{47}{16} = 2$, residuo $15 \rightarrow F$

c) $10\,000 \rightarrow 2710$

$\frac{10\,000}{16} = 625$, res 0

$\frac{625}{16} = 39$, res 1

$\frac{39}{16} = 2$, res 7.

d) $4099 \rightarrow 1003$

$\frac{4099}{16} = 256$, res 3

$\frac{256}{16} = 16$, res 0

$\frac{16}{16} = 1$, res 0

2. a) $1000_{(8} \rightarrow 512_{(10}$

$0 \cdot 8^0 = 0$
$0 \cdot 8^1 = 0$
$0 \cdot 8^2 = 0$
$1 \cdot 8^3 = 512$

b) $686_{(8} \rightarrow 449_{(10}$

$6 \cdot 8^0 = 6$
$8 \cdot 8^1 = 64$
$6 \cdot 8^2 = 384$

c) $4321_{(8} \rightarrow 2257_{(10}$

$1 \cdot 8^0 = 1$
$2 \cdot 8^1 = 16$
$3 \cdot 8^2 = 192$
$4 \cdot 8^3 = 2048$

d) $406_{(8} \rightarrow 262_{(10}$

$6 \cdot 8^0 = 6$
$0 \cdot 8^1 = 0$
$4 \cdot 8^2 = 256$

3. a) $65\,022{,}22 + 0{,}009998 \rightarrow 0{,}6500 \times 10^5 + 0{,}9998 \times 10^{-2}$

$$\begin{array}{r} 0{,}650000000 \times 10^5 \\ +\ 0{,}000000998 \times 10^5 \\ \hline 0{,}650000998 \times 10^5 \end{array}$$

$0{,}00000998$

$0{,}65000098 \times 10^5$

b) $310,044 - 19\,450,006 \rightarrow 0,3100 \times 10^3 - 0,1945 \times 10^5$

$$\begin{array}{r} 0,0031000 \times 10^5 \\ -\ 0,1945000 \times 10^5 \\ \hline -\ 0,1914000 \times 10^5 \end{array}$$

$0,1914 \times 10^5$

c) $0,44945 \cdot 0,0009667 \rightarrow 0,4495 \times 10^0 \cdot 0,9667 \times 10^{-3}$

$0,4495 \cdot 0,9967 \times 10^3 = 0,4480166 \times 10^3$

d) $32,55000022 \div 0,000895999 \rightarrow 0,3255 \times 10^2 \div 0,896 \times 10^{-3}$

$= 0,3632812 \times 10^5$