

1) a. Decimal a Hex b.

$$\begin{array}{r} 611 \\ 131 \\ 3 \end{array} \begin{array}{l} \underline{16} \\ 38 \\ \underline{16} \\ 6 \\ 2 \end{array}$$

$$= 263_{16}$$

$$\begin{array}{r} 48 \\ 0 \end{array} \begin{array}{l} \underline{16} \\ 3 \end{array}$$

$$= 30_{16}$$

c.

$$\begin{array}{r} 5000 \\ 20 \\ 40 \end{array} \begin{array}{l} \underline{16} \\ 312 \\ \underline{16} \\ 152 \\ \underline{16} \\ 19 \\ \underline{16} \\ 3 \\ 1 \end{array}$$

$$= 1388_{16}$$

d.

$$\begin{array}{r} 6199 \\ 139 \\ 119 \end{array} \begin{array}{l} \underline{16} \\ 387 \\ \underline{16} \\ 67 \\ \underline{16} \\ 24 \\ \underline{16} \\ 3 \\ 1 \end{array}$$

$$= 1837_{16}$$

2) a. Octal a decimal

b. No se puede.

$$500_8 = 320_{10}$$

$$\begin{array}{ll} 8^0 = 1 & 5 \times 64 = 320 \\ 8^1 = 8 & 0 \times 8 = 0 \\ 8^2 = 64 & 0 \times 1 = 0 \\ 8^3 = 512 & \end{array}$$

$$c. 5445_8 = 2853_{10}$$

$$\begin{array}{ll} 5 \times 512 = 2560 \\ 4 \times 64 = 256 \\ 4 \times 8 = 32 \\ 5 \times 1 = 5 \end{array}$$

$$d. 277_8 = 191_{10}$$

$$\begin{array}{ll} 2 \times 64 = 128 \\ 7 \times 8 = 56 \\ 7 \times 1 = 7 \end{array}$$

3) a.  $72202,53 + 0,009997$

$$\begin{array}{r} 72202,53 \\ 0,009997 \\ \hline 72202,539997 \end{array}$$

Rta:  $0,7520254 \times 10^5$

b.  $533,075 - 38611,007$

$$\begin{array}{r} 533,075 \\ 38611,007 \\ \hline -38077,932 \end{array}$$

Rta:  $-0,3807793 \times 10^5$

c.  $0,38654$

$$\begin{array}{r} 0,38654 \\ 0,00012097 \\ \hline 4,675974438 \times 10^{-5} \end{array}$$

Rta:  $0,4675974 \times 10^{-6}$

d.  $37,86093 / 0,000103862$

$$\begin{array}{r} 3786093 \\ 0,000103862 \\ \hline 364531,1086 \end{array}$$

Rta:  $0,3645311 \times 10^{-6}$