① decimal a hexadecimal

a) 476

476/16 = 29 residuo 12

29/16 = 1 residuo 13

= 1 13 12 = 1DC

b) 47

47/16 = 2 residuo 15

= 2 15 = 2F

c) 10000

10000/16 = 625 residuo 0

625/16 = 39 residuo 1

39/16 = 2 residuo 7

= 2 7 1 0 = 2710

d) 4099

4099/16 = 256 residuo 3

256/16 = 16 residuo 0

16/16 = 1 residuo 0

= 1 0 0 3 = 1003

2) octal a decimal

a) 1000

$0 \times 8^0 = 0$

$0 \times 8^1 = 0$

$0 \times 8^2 = 0$

$1 \times 8^3 = 512$

= 512

b) 686

$6 \times 8^0 = 6$

$8 \times 8^1 = 64$

$6 \times 8^2 = 384$

$6 + 64 + 384 =$

= 454

c) 4321

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

$2048 + 192 + 16 + 1$

$= 2257$

d) 406

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

$256 + 6$

$= 262$

3)

a) 65.002,22 + 0,009998

$0{,}6500222 \times 10^5 + 0{,}9998 \times 10^{-2}$

$0{,}65000 \times 10^5 + 0{,}9998 \times 10^{-2}$

$0{,}6500000000 \times 10^5$
$0{,}0000000099998 \times 10^5$ +

$0{,}6500000099998 \times 10^5$

$= 0{,}65000001 \times 10^5$

b) 310,044 − 19.450,006

$0{,}310044 \times 10^3 - 0{,}19450006 \times 10^5$

$0{,}3100 \times 10^3 - 0{,}1945 \times 10^5$

$0{,}0031000 \times 10^5$
$-\ 0{,}19450 \times 10^5$

$-0{,}19140000 \times 10^5$

$= 0{,}19140000 \times 10^5$

c) $0,44945 \times 0,0009667$

$0,44945 \times 0,9667 \times 10^{-3}$

$0,434483315 \times 10^{-3}$

$0,4344833 \times 10^{-3}$

d) $32,55000022 / 0,000895999$

$0,3255 \times 10^{2} / 0,8959 \times 10^{-3}$

$0,363321799 3 \times 10^{5}$

$0,36332218 \times 10^{5}$