

GABORITO 8P1 / 2018/2º

512  
256  
15  
911

2) a)  $(\overline{1111000}|\overline{1111.011})_2 = (\underline{911.375})_{10} = (\underline{38F.6})_{16} \frac{128}{15}$

 $0.011_2 = 0.25 + 0.125 = 0.375_{10}$

b)  $(\overline{222111000.01122})_3 = (28430.156)_9$

c)  $666666_7 \cdot \frac{6}{111111|6} = (2304400)_6$

$$\begin{array}{r}
 666666_7 \\
 \times \quad \quad 6 \\
 \hline
 046405140516 \\
 046405140516 \\
 \hline
 03216216216 \\
 \end{array}$$

d)  $(23456.65432)_8 =$

$$10|111|0|10|110,110|0|1|0|0|1|0|0$$

$$= (2130232.3112031)_4 = (272E.D634)_{16}$$

e)  $(ABCDE.FEDC)_{16} = (2223303132.3332313)_4$

$$= 10|0|1|0|111|10|1|1|10;11|1|1|0|1|10|1|1 =$$

$$= (2536336.77556)_8$$

3) a)  $\begin{array}{r} \overline{11111111} \\ EFOEDCB.FB09_{16} \\ + FFGD09A.CEF9A_{16} \\ \hline (1EEABE66.CA02A)_{16} \end{array}$

b)  $60001005.0101_7$

$$- 56560461.66503_7$$

$$\hline (00110213.01204)_7$$

c) 9010101.0B<sub>16</sub>

- #CDCBA.EE9A

(8042446.1C76)<sub>16</sub>

d) 1011010011.1011<sub>2</sub>

1101101111.1010<sub>2</sub>

+ 1011101110.01111

(100100110001.1101)<sub>2</sub>

e) 1010010001.010<sub>2</sub>

- 111110110.1100<sub>2</sub>

(10011010.10001)<sub>2</sub>