

GESSUTO - API - 2016/2º

(3 E 7.02 D...) 16

512	-	9
256	-	8
128	-	7
64	-	6
32	-	5
4	-	2
2	-	1
1	-	0

$$2) a) (999,011)_10 = (1111100111, \overset{58}{\underset{\Delta=1}{10110100000}} \dots)_{12}$$

$$0.011 \times 2 = 0.022 \rightarrow b-1=0 \quad 0.704 \times 2 = 1.408 \rightarrow b-7=1 \quad \underline{\underline{999}}$$

$$0,022 \times 2 = 0,044 \rightarrow \Delta z = 0 \quad 0,408 \times 2 = 0,816 \rightarrow \Delta g = 0$$

$$0.044 \times 2 = 0.088 \rightarrow \Delta g = 0 \quad 0.816 \times 2 = 1.632 \rightarrow \Delta g = 1$$

$$0.088 \times 2 = 0.176 \rightarrow \Delta - 4 = 0 \quad 0.632 \times 2 = 1.264 \rightarrow \Delta - 10 = 1$$

$$0.176 \times 2 = 0.352 \rightarrow \Delta - 5 = 0 \quad 0.264 \times 2 = 0.528 \rightarrow \Delta - 11 = 0$$

$$0.352 \times 2 = 0.704 \rightarrow \Delta - 6 = 0 \quad 0.528 \times 2 = 1.056 \rightarrow \Delta - 12 = 1$$

$$b) (1 \bar{2} 2 | 1 \bar{2} 0 \bar{2} 0 \bar{2} 0 | b | 1 \bar{2} 1. 1 | 1 \bar{2} 0 \bar{2} 0 \bar{2} 0 | 1)_3 =$$

$$= (185221154.460803)_9$$

c) 6666668 16

$$\begin{array}{r}
 (0) \quad \overline{11111111} \quad | \quad \overline{611111} \quad | \quad 6 \\
 31 \quad \overline{141411} \quad | \quad 6 \\
 \underline{11} \quad \quad \quad 014 \quad | \quad \overline{2020} \quad | \quad 6 \\
 31 \quad \quad \quad 01 \quad | \quad 42 \quad | \quad \overline{2556} \\
 \underline{11} \quad \quad \quad 40 \quad | \quad \underline{2} \quad | \quad 35 \quad 34 \quad | \quad 6 \\
 (3) \quad \quad \quad \quad \quad \quad 5 \quad 4 \quad | \quad 4 \quad | \quad 6 \\
 \quad \quad \quad \quad \quad \quad 4 \quad \quad \quad \quad \quad 0
 \end{array}$$

$$d) (7770041.04561)_8 =$$

$$= (1111111111000000100001.000100101111001)_2$$

$$= (1FF021.12E2)_{16} = (133330002D1.01023202)_4$$

$$e) (EF90D, BCA)_{16} = (3233210031, 203022)_4$$

$$= (11011110010001011001010)_2$$

$$= (3574415 \cdot 4312)_8$$

$$\begin{array}{r} \textcircled{3}) \text{a) } \text{FEEDAE.C.1D97}_{16} \\ + \text{EFCDBAC.DEEA}_{16} \\ \hline (\text{1EEBB698.FC81})_{16} \end{array}$$

$$\begin{array}{r} \text{b) } 70001110.0201_9 \\ - 68857347.75477_9 \\ \hline (00032651.15422)_9 \end{array}$$

$$\begin{array}{r} \text{c) } 1000100.021_{16} \\ - \text{FDE5BA.GDCE}_{16} \\ \hline (2LB45.6442)_{16} \end{array}$$

$$\begin{array}{r} \text{d) } \begin{array}{l} 101101101101010101011 \\ 1101111001.11111 \\ 11010101011.10101 \\ 110110111.01111 \\ + \end{array} \\ \hline (101010010101.00010)_2 \end{array}$$

$$\begin{array}{r} \text{e) } 1001011001.00011_2 \\ - 1110111101.11111_2 \\ \hline (1000110111.00011)_2 \end{array}$$