

GABRILO API-2017/1º

①

9-512
8-256
6-64
5-32
-11
875

$$\textcircled{2} a) (1101101011.0101)_2 = (875 + 0.25 + 0.0625) = (875.3125)_{10} = (1553.24)_8$$

$$b) (12012220201021211.01210021021)_3 = (165821254.170723)_9$$

$$c) 777778 \begin{array}{r} 7 \\ 111111 \\ 24 \\ 31 \\ 41 \\ 5 \end{array} \begin{array}{r} 7 \\ 1234 \\ 33 \\ 64 \\ 47 \\ 3 \end{array} \begin{array}{r} 7 \\ 137 \\ 15 \\ 461 \end{array} = (164350)_7$$

$$d) (676750.41055)_8 = (37DE8.845A)_{16} = 110111110111101000.10001000101101_2 = (313313220.20101122)_4$$

$$e) (AEC1F.91E)_{16} = (2232300133.210132)_4 = (1010111011000011111.1001000111110)_2 = (2566037.4436)_8$$

3) a) $\begin{array}{r} \text{FCBDA8C.3F9B}_{16} \\ + \text{EECD7A5.DFEB}_{16} \\ \hline \text{(1EB8B232.1F86)}_{16} \end{array}$

b) $\begin{array}{r} 80101310.0231_9 \\ - 78657345.72457_9 \\ \hline \text{(00332853.18742)}_9 \end{array}$

c) $\begin{array}{r} 1011100.001_{16} \\ - \text{CDB4BE.8CCE}_{16} \\ \hline \text{(335C41.7342)}_{16} \end{array}$

d) $\begin{array}{r} 1110101001.1011 \\ + 1101011101.0110 \\ \hline \text{(101001000011.00000)}_{16} \end{array}$

e) $\begin{array}{r} 1000111001.0101_2 \\ - 111011101.11101_2 \\ \hline \text{(001011011.01101)}_2 \end{array}$