

a)  $(1111011101.11)_2 = (?)_{10} = (?)_{16} = (3DD.E)_{16} =$   
 $(12+256+128+64+16+13) = 989$   
 $(0.5+0.25+0.125) = 0.875$   
 $= (989.875)_{10}$

b)  $(12222002221200202.01122021021)_3 =$   
 $(188087622156723)_9 =$

c)  $(6604537)_8 = (101551035)_6$

$$\begin{array}{r} 6604537_8 \\ \underline{00045} \\ 13 \\ \underline{57} \\ 5 \end{array} \quad \begin{array}{r} 1100617_6 \\ \underline{11006} \\ 30 \\ \underline{006} \\ 817 \\ \underline{3} \end{array} \quad \begin{array}{r} 140102_6 \\ \underline{14010} \\ 22 \\ \underline{0} \end{array} \quad \begin{array}{r} 20013_6 \\ \underline{20013} \\ 40 \\ \underline{21} \\ 53 \\ \underline{1} \end{array} \quad \begin{array}{r} 2527_6 \\ \underline{2527} \\ 32 \\ \underline{27} \\ 5 \end{array} \quad \begin{array}{r} 343_6 \\ \underline{343} \\ 43 \\ \underline{43} \\ 45 \\ \underline{45} \\ 6 \\ \underline{6} \\ 016 \\ \underline{10} \end{array}$$

d)  $(7506645.1057)_8 =$

$= (11110100011011010010100100101111)_2$   
 $= (132203122111020233)_4 =$   
 $= (1E8DA5.22F)_{16}$

e)  $(DD94B.8CA)_{16} = (3131211023.203022)_4 =$   
 $= (11011101100101001011.100011001010)_2$   
 $(33545134312)_8$

$$\begin{array}{r} \textcircled{3} \text{ a) } \overset{1}{F} \overset{1}{E} \overset{1}{D} \overset{1}{D} \overset{1}{B} \overset{1}{E} \overset{1}{C} . \overset{1}{B} \overset{1}{9} \overset{1}{E}_{16} \\ + \text{EFFDB1C.CBEA}_{16} \\ \hline (1EEDB709.85CA)_{16} \end{array}$$

$$\begin{array}{r} \text{b) } 70000210.0301_8 \\ - 67657147.75477_8 \\ \hline (00121040.05311)_8 \end{array}$$

$$\begin{array}{r} \text{c) } 1010200.073_{16} \\ - \text{FFC5AD.9CBE}_{16} \\ \hline (13C52.6A72)_{16} \end{array}$$

$$\begin{array}{r} \text{d) } \overset{10}{1} \overset{1}{1} \overset{1}{1} \overset{10}{1} \overset{10}{1} \overset{1}{1} \overset{1}{1} \overset{1}{1} \overset{1}{1} \\ 1111001101.1001_2 \\ + 1110011101.10101 \\ \hline (101011100101.1111)_2 \end{array}$$

$$\begin{array}{r} \text{e) } 1010001001.0001_2 \\ - 111010111.10111_2 \\ \hline (10110001.01011)_2 \end{array}$$