

$$\begin{array}{r}
 1 \\
 5 \\
 2 \\
 6 \\
 1 \\
 4 \\
 \hline
 \end{array}
 \begin{array}{r}
 3 \\
 12 \\
 256 \\
 128 \\
 64 \\
 16 \\
 \hline
 7
 \end{array}$$

(2) a) $\left(\begin{smallmatrix} 1 & 1 & 1 & 0 & 1 & 1 & 0 & 1 \\ 3 & & & 7 & & 6 \end{smallmatrix} \right)_2 = (983.375)_{10} = \frac{(3D7.6)_{16}^{0.25}}{0.375}$

b) $(222,120222,00220212,2122202220,1)_3 = \frac{983}{7}$
 $= (285280825.786863)_9$

c) $666665_7 \div \frac{16}{5} = (2304355)_6$

$$\begin{array}{r}
 5 \\
 \overline{21} \\
 31 \\
 41 \\
 50 \\
 5 \\
 \hline
 33 \\
 045 \\
 3 \\
 \hline
 12345 \\
 1405 \\
 50 \\
 55 \\
 06 \\
 0 \\
 \hline
 6 \\
 156 \\
 156 \\
 0 \\
 3 \\
 2 \\
 \hline
 6 \\
 21 \\
 21 \\
 0 \\
 \hline
 0 \\
 2 \\
 \hline
 0
 \end{array}$$

d) $(3330320131,3933,203)_4 =$
 $= (\text{FCE1D.CF8C})_{16}$
 $= (111111001111000b1101,110b1111b00111)_2$
 $= (3747035.63706)_8$

e) $CCEA99F.08CD_{16} = (303222212133.00203031)_4$
 $= (110p11101p1010q110p1111,000b1d00110011d1)_2$
 $= (63524637.021464)_8$

(2)

$$\textcircled{3e} \quad \begin{array}{r} 11111111 \\ - EA0DEBEC.B3C7_{16} \\ + CFFDE03C.DFFA_{16} \\ \hline (1BA0BCC29.93C1)_{16} \end{array}$$

b) $\begin{array}{r} 70000211.0001_8 \\ - 67657177.76407_8 \\ \hline (121011.01401)_8 \end{array}$

c) $\begin{array}{r} 1000201.0A1_{16} \\ - FDC9BC.ED9C_{16} \\ \hline (23844.1C74)_{16} \end{array}$

d) $\begin{array}{r} 1011011111.1101_2 \\ - 1110101011.1010_2 \\ + 1101111111.1010_2 \\ \hline (1001110001011.001)_2 \end{array}$

e) $\begin{array}{r} 1010011101.0001_2 \\ - 111011111.10111_2 \\ \hline (10111101.01011)_2 \end{array}$