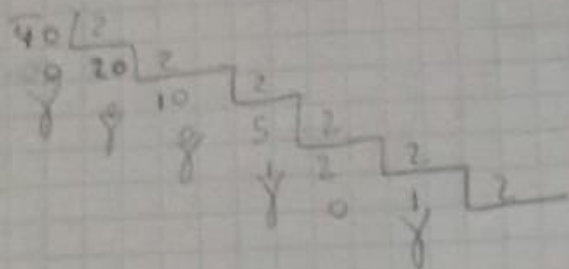
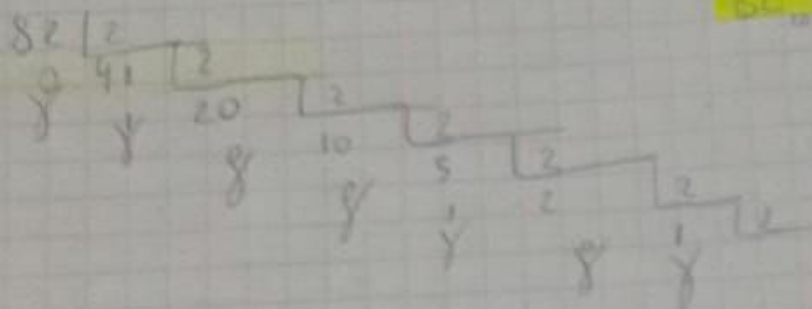


1)

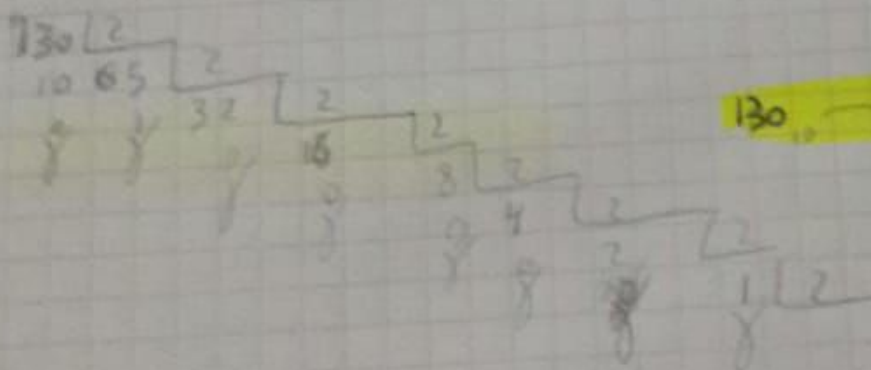


$40_{10} \rightarrow 10100010_2$

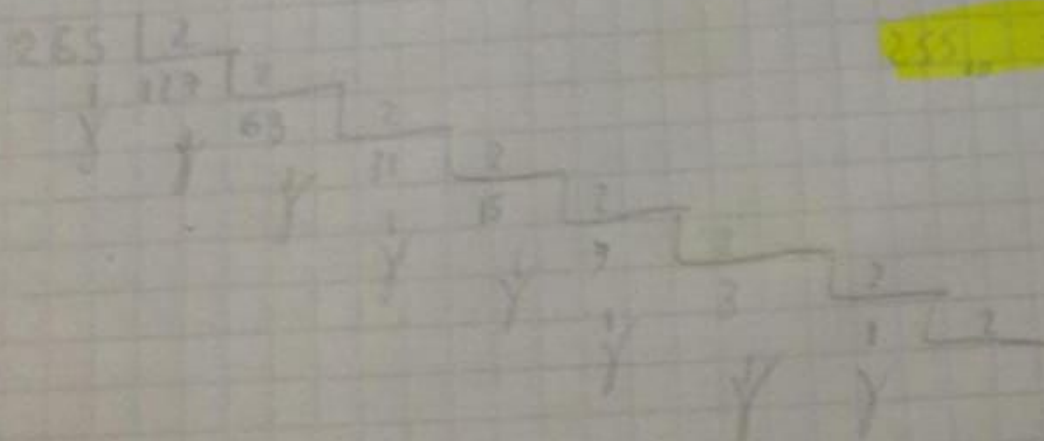
p.1



$82_{10} \rightarrow 1010010_2$

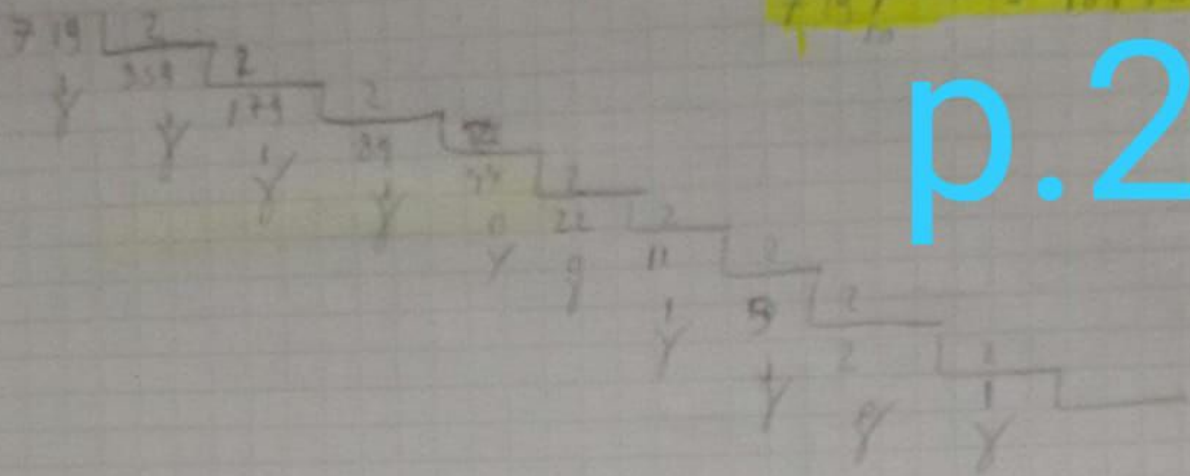


$130_{10} \rightarrow 10000010_2$

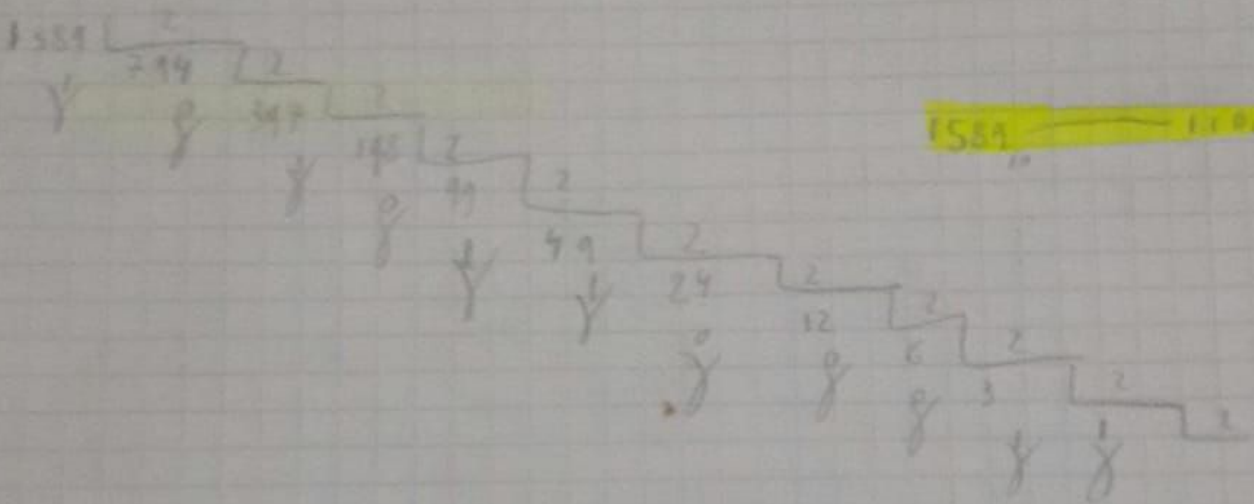


$255_{10} \rightarrow 11111111_2$

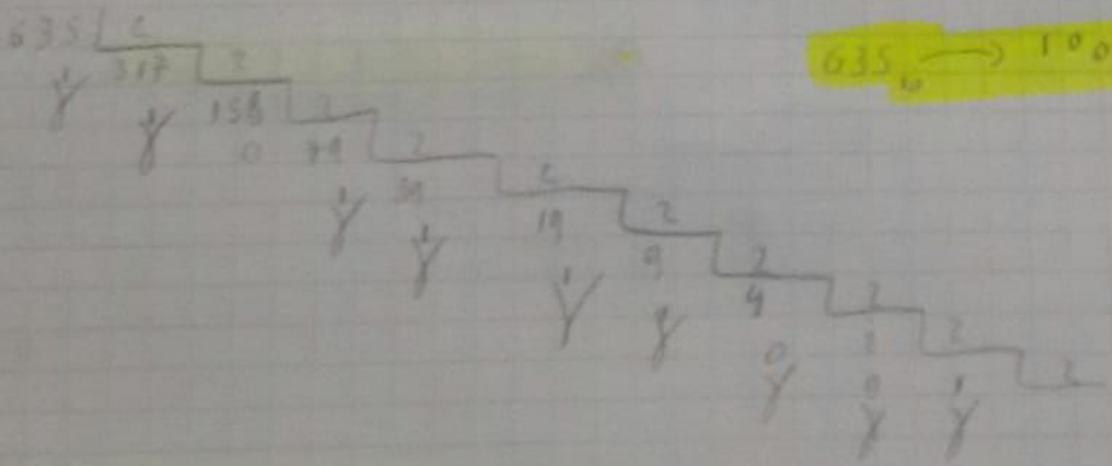
p.2



7.19 10 100 100 100 100 100 100 100 100 100



1585 10 100 100 100 100 100 100 100 100 100



635 10 100 100 100 100 100 100 100 100 100

2)

$$\begin{array}{c|c|c|c} A & F & 4 & E \\ \hline 1010 & 1111 & 0100 & 1110_2 \end{array}$$

$$\begin{array}{c|c|c|c} D & 3 & F & 5 \\ \hline 1101 & 0011 & 1111 & 0101_2 \end{array}$$

$$\begin{array}{c|c|c|c} 9 & 1 & C & 3 \\ \hline 1001 & 0001 & 1100 & 0011_2 \end{array}$$

$$\begin{array}{c|c|c} 2 & 5 & 7 \\ \hline 0010 & 0101 & 0111_2 \end{array}$$

3)

$$\begin{array}{c|c|c} 7 & 6 & 5 \\ \hline 111 & 110 & 101_2 \end{array}$$

$$\begin{array}{c|c|c|c|c} 1 & 1 & 2 & 6 & 6 \\ \hline 001 & 001 & 010 & 110 & 110_2 \end{array}$$

$$\begin{array}{c|c|c|c} 12 & 5 & 7 & 7 \\ \hline 001 & 010 & 101 & 111_2 \end{array}$$

$$\begin{array}{c|c|c|c} 6 & 2 & 5 & 3 \\ \hline 110 & 010 & 101 & 010_2 \end{array}$$

$$\begin{array}{c} 11 \\ 9 \ 5 \ 2 \ 3 \ 6 \\ \hline 11101101101_2 \end{array}$$

p.3

$$\begin{array}{c} 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ 1 \ 1 \ 0 \ 1 \ 1 \ 0 \ 1 \ 1 \ 0 \ 0_2 \end{array} = 1 \cdot 2^9 + 1 \cdot 2^8 + 0 + 1 \cdot 2^6 + 1 \cdot 2^5 + 0 + 1 \cdot 2^3 + 1 \cdot 2^2 + 0 + 0$$

$$512 + 256 + 0 + 64 + 32 + 0 + 8 + 4 + 0 + 0 = 876_{10}$$

$$\begin{array}{c} 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ 1 \ 1 \ 1 \ 0 \ 1 \ 1 \ 1 \ 1_2 \end{array} = 2^7 + 2^6 + 2^5 + 2^4 + 2^3 + 2^2 + 2^1 + 2^0$$

$$128 + 64 + 32 + 16 + 8 + 4 + 2 + 1 = 479_{10}$$

$$\begin{array}{c} 10 \ 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ 0 \ 1 \ 1 \ 0 \ 0 \ 1 \ 1 \ 1 \ 0 \ 1 \ 1_2 \end{array} = 2^9 + 2^8 + 2^7 + 2^6 + 2^5 + 2^4 + 2^3 + 2^2 + 2^1 + 2^0 = 1851_{10}$$

$$\begin{array}{c} 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ 1 \ 1 \ 1 \ 0 \ 1 \ 0_2 \end{array} = 2^5 + 2^4 + 2^3 + 2^1 = 58_{10}$$

$$\begin{array}{c} 5 \ 4 \ 3 \ 2 \ 1 \ 0 \\ 1 \ 0 \ 1 \ 0 \ 1 \ 0 \ 1 \ 0_2 \end{array} = 2^5 + 2^3 + 2^1 + 2^0 = 67_{10}$$

$$5) \quad \begin{array}{c|c|c} 110110 & 1100_2 & \\ \hline 3 & 6 & C_{16} \end{array} \quad \begin{array}{c|c|c} 11101111 & 1111_2 & \\ \hline 7 & D & E_{16} \end{array} \quad \begin{array}{c|c|c|c} 01110011 & 0111_2 & & \\ \hline 7 & 3 & 9 & 4 \end{array}$$

$$\begin{array}{c|c|c} 110101 & 1010101101 & \\ \hline 3 & A_{16} & 2 & 1A & 6_{16} \end{array}$$

p.4

$$\begin{array}{c|c|c|c} 110110 & 1100_2 & 1100_2 & 1100_2 \\ \hline 1 & 5 & 5 & 4_8 \end{array} \quad \begin{array}{c|c|c|c} 11101111 & 1111_2 & 1111_2 & 1111_2 \\ \hline 7 & 3 & 7 & 3 \end{array} \quad \begin{array}{c|c|c|c} 01110011 & 0111_2 & 0111_2 & 0111_2 \\ \hline 3 & 4 & 2 & 3 \end{array}$$

$$\begin{array}{c|c|c|c} 11101101 & 1101_2 & 1101_2 & 1101_2 \\ \hline 7 & 2 & 3 & 3 \end{array} \quad \begin{array}{c|c|c|c} 1010101101 & 1010_2 & 1010_2 & 1010_2 \\ \hline 1 & 2 & 7 & 6 \end{array}$$

$$a) \quad \begin{array}{c} 1251 \quad 2 \\ \hline 53 \quad 172 \quad 2 \quad 2 \\ \hline 61 \quad 38 \quad 23 \quad 2 \\ \hline 8 \quad 5 \quad 9 \quad 3 \end{array}$$

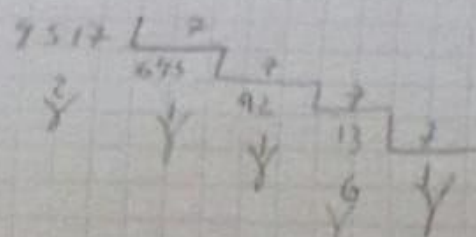
$$1251_{16} \quad \text{---} \quad 3935_2$$

$$\begin{array}{c} 36985 \quad 2 \\ \hline 4 \quad 5283 \quad 2 \\ \hline 5 \quad 754 \quad 2 \\ \hline 107 \quad 2 \\ \hline 15 \quad 2 \\ \hline 2 \quad 4 \quad 2 \end{array}$$

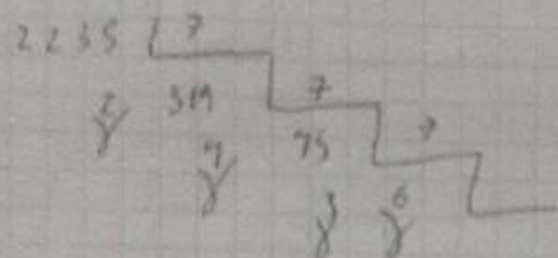
$$36985_{16} \quad \text{---} \quad 212554_2$$

$$\begin{array}{c} 12563 \quad 2 \\ \hline 5 \quad 1294 \quad 2 \\ \hline 2 \quad 256 \quad 2 \\ \hline 36 \quad 2 \\ \hline 4 \quad 5 \end{array}$$

$$12563_{16} \quad \text{---} \quad 51425_2$$

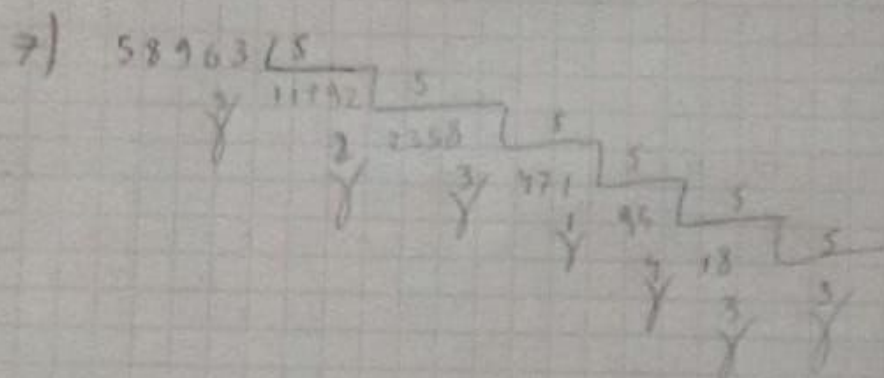


$$9517_{10} \longrightarrow 16112_2$$

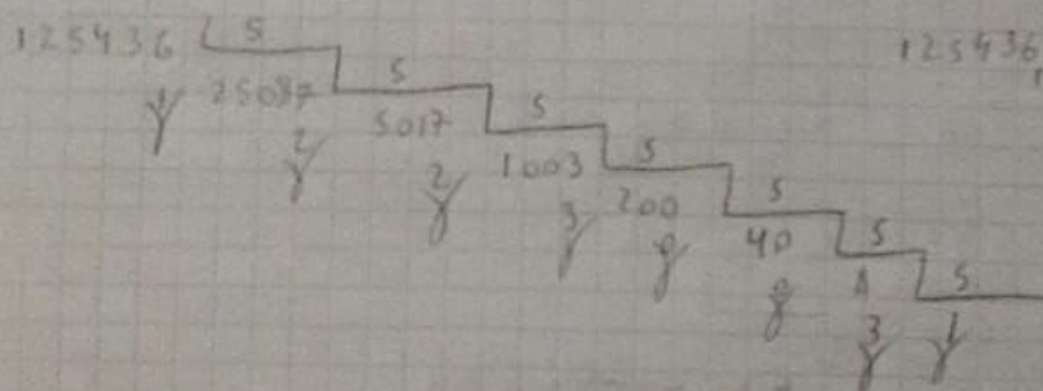


$$2235_{10} \longrightarrow 6392_7$$

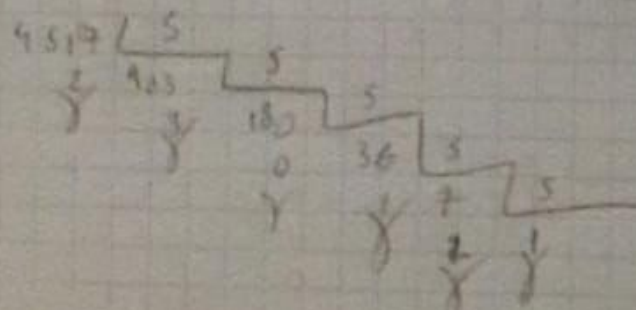
p.5



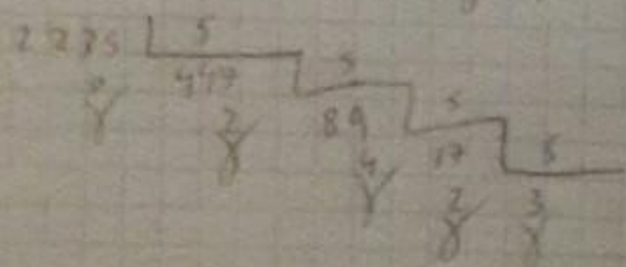
$$58963_{10} \longrightarrow 3341323_5$$



$$125436_{10} \longrightarrow 15003221_5$$



$$4517_{10} \longrightarrow 121032_5$$



$$2235_{10} \longrightarrow 32920_5$$

$$40_{10} = 19_{12}$$

$$\begin{array}{r} 8) \quad 40 \overline{) 12} \\ \underline{32} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

$$82_{10} = 6A_{12}$$

$$\begin{array}{r} 82 \overline{) 12} \\ \underline{16} \\ 66 \\ \underline{64} \\ 2 \end{array}$$

$$130_{10} = 8A_{12}$$

$$\begin{array}{r} 130 \overline{) 12} \\ \underline{16} \\ 114 \\ \underline{112} \\ 2 \end{array}$$

$$255_{10} = B3_{12}$$

$$\begin{array}{r} 255 \overline{) 12} \\ \underline{3} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

$$715_{10} = 50B_{12}$$

$$\begin{array}{r} 715 \overline{) 12} \\ \underline{11} \\ 605 \\ \underline{605} \\ 0 \end{array}$$

$$\begin{array}{r} 1589 \overline{) 12} \\ \underline{5} \\ 1039 \\ \underline{1039} \\ 0 \end{array}$$

$$1589_{10} = B05_{12}$$

$$\begin{array}{r} 635 \overline{) 12} \\ \underline{6} \\ 55 \\ \underline{55} \\ 0 \end{array}$$

$$635_{10} = 44B_{12}$$

p.6

$$9) \begin{array}{r} 11111111 \\ 111011101 \\ + \quad 111111 \\ \hline 1000011100 \end{array} \quad a)$$

$$b) \begin{array}{r} 11010101 \\ 1010101 \\ \hline 101111110 \end{array} \quad a)$$

$$c) \begin{array}{r} 1111 \\ 111100000 \\ 1100001 \\ \hline 1000000001 \end{array} \quad e)$$

$$d) \begin{array}{r} 11111111 \\ 11101110110 \\ 1111011111 \\ \hline 101101010011 \end{array} \quad a)$$

$$10) \begin{array}{r} 111 \\ a) \quad 75632 \\ + \quad 225631 \\ \hline 323463 \end{array} \quad b)$$

$$b) \begin{array}{r} 1111 \\ + \quad 252157 \\ \quad 574236 \\ \hline 1053413 \end{array} \quad a)$$

$$c) \begin{array}{r} 1 \\ + \quad 1225321 \\ \quad 44432 \\ \hline 1271753 \end{array} \quad a)$$

$$d) \begin{array}{r} 11111 \\ 2533627 \\ 727212 \\ \hline 12533241 \end{array} \quad a)$$

$$e) \begin{array}{r} 11011101 \\ 01110111 \\ \hline 12121212 \end{array} \quad b)$$

$$f) \begin{array}{r} 85293 \\ 159 \\ \hline \end{array} \quad \text{No existe en base 8}$$

$$11) \begin{array}{r} 111 \\ a) \quad 12432 \\ + \quad 124132 \\ \hline 142114 \end{array} \quad (3)$$

$$b) \begin{array}{r} 12112 \\ 21122 \\ \hline 33234 \end{array}$$

$$c) \begin{array}{r} 11 \\ 122111 \\ 54032 \\ \hline 303 \end{array} \quad \text{No existe en base 5}$$

$$d) \begin{array}{r} 111 \\ + \quad 824423 \\ \quad 1313211 \\ \hline 2143134 \end{array}$$

p.7

$$12) \quad \begin{array}{r} \\ + A D 5 F \\ D F 3 2 \\ \hline 1 8 6 9 1 \end{array} \quad (16)$$

$$1) \quad \begin{array}{r} \\ + F D E C \\ 2 5 8 A \\ \hline 1 2 3 7 6 \end{array} \quad (16)$$

$$c) \quad \begin{array}{r} \\ + 5 D E F \\ 1 2 5 E C \\ \hline 1 8 3 D B \end{array} \quad (16)$$

$$d) \quad \begin{array}{r} \\ + 6 7 3 5 \\ D F 3 E \\ \hline \end{array} \quad \begin{array}{l} \text{10e chiffre en} \\ \text{hexadécimal} \end{array}$$

$$e) \quad \begin{array}{r} \\ + 4 4 7 E D F \\ D F 3 6 9 \\ \hline 5 2 7 2 4 8 \end{array} \quad (16)$$

$$f) \quad \begin{array}{r} \\ + E A B C 7 \\ D A C 9 3 \\ \hline 1 C 5 8 5 A \end{array} \quad (16)$$

p.8

$$13) \quad a) \quad \begin{array}{r} - 1 2 5 9 8 6 \\ 0 3 3 2 6 5 \\ \hline \end{array} \xrightarrow{C_9} 9 6 6 7 3 4 \xrightarrow{C_{11}} \begin{array}{r} \\ + 1 2 5 9 8 6 \\ 9 6 6 7 3 4 \\ \hline 1 0 9 2 7 2 1 \end{array} \xrightarrow{C_{12}} 9 2 7 2 1 0 A T A$$

$$b) \quad \begin{array}{r} - 5 8 9 6 3 2 1 \\ 5 2 2 2 6 3 \\ \hline \end{array} \xrightarrow{C_9} 5 7 9 6 3 2 1 \xrightarrow{C_{11}} \begin{array}{r} \\ + 5 7 9 6 3 2 1 \\ 5 2 2 2 6 3 \\ \hline 1 0 7 4 0 5 8 \end{array} \xrightarrow{C_{12}} 5 7 4 0 5 8 0 A T A$$

$$c) \quad \begin{array}{r} - 7 5 2 6 \\ 5 7 2 6 8 \\ \hline \end{array} \xrightarrow{C_9} 7 5 2 6 \xrightarrow{C_{11}} \begin{array}{r} \\ + 7 5 2 6 \\ 5 7 2 6 8 \\ \hline 1 4 2 5 2 \end{array} \xrightarrow{C_{12}} -5 0 7 4 2 0 A T A$$

$$d) \quad \begin{array}{r} - 8 7 5 2 \\ 8 8 8 9 6 \\ \hline \end{array} \xrightarrow{C_9} 8 7 5 2 \xrightarrow{C_{11}} \begin{array}{r} \\ + 8 7 5 2 \\ 8 8 8 9 6 \\ \hline 1 7 6 5 6 \end{array} \xrightarrow{C_{12}} -8 0 1 4 4 0 A T A$$

$$e) \quad \begin{array}{r} - 4 5 4 2 \\ 5 6 5 6 3 3 \\ \hline \end{array} \xrightarrow{C_9} 4 5 4 2 \xrightarrow{C_{11}} \begin{array}{r} \\ + 4 5 4 2 \\ 5 6 5 6 3 3 \\ \hline 1 0 0 9 0 4 \end{array} \xrightarrow{C_{12}} -3 6 1 0 9 1 0 A T A$$

$$f) \begin{array}{r} 458996 \\ 023533 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 11111111 \\ 00000000 \\ \hline 11111111 \end{array} \rightarrow R_1A = 11111111$$

$$g) \begin{array}{r} 1111101 \\ 11110111 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 1111101 \\ 00001000 \\ \hline 01000110 \end{array} \rightarrow R_1A = 01000110$$

$$h) \begin{array}{r} 11110111 \\ 0110110 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 1110111 \\ 1001010 \\ \hline 11000001 \end{array} \rightarrow R_1A = 11000001$$

$$i) \begin{array}{r} 11111011 \\ 11110101 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 11110111 \\ 00001011 \\ \hline 100000010 \end{array} \rightarrow R_1A = 100000010$$

$$j) \begin{array}{r} 11011101 \\ 11111011 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 11011101 \\ 000001001 \\ \hline 011100110 \end{array} \rightarrow R_1A = 011100110$$

$$k) \begin{array}{r} 110110101 \\ 001010111 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 110110101 \\ 110101001 \\ \hline 101011110 \end{array} \rightarrow R_1A = 101011110$$

$$l) \begin{array}{r} 101010110 \\ 000111011 \\ \hline \end{array} \xrightarrow{C_{10}} \begin{array}{r} 11111111 \\ 101010110 \\ 111000101 \\ \hline 100011011 \end{array} \rightarrow R_1A = 100011011$$

p.9

15]

a)

$$\begin{array}{r}
 -1523 \\
 \underline{5563} \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}}
 \begin{array}{r}
 1 \\
 +1523 \\
 \underline{1104} \\
 2630 \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}} -4090_{(7)} \rightarrow RTN$$

$$\begin{array}{r}
 -12563 \\
 \underline{111425} \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}}
 \begin{array}{r}
 1111 \\
 +12563 \\
 \underline{555242} \\
 601135 \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}} -063532_7 \rightarrow RTN$$

$$\begin{array}{r}
 -35236 \\
 \underline{514233} \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}}
 \begin{array}{r}
 11111 \\
 +35236 \\
 \underline{152984} \\
 291003 \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}} -425064_7 \rightarrow RTN$$

$$\begin{array}{r}
 -121454 \\
 \underline{456322} \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}}
 \begin{array}{r}
 111 \\
 +121454 \\
 \underline{210345} \\
 332172 \\
 \hline
 \end{array}
 \xrightarrow{C_{6+1}} -334533_7 \rightarrow RTN$$

16]

$$\begin{array}{r}
 -AF21563 \\
 \underline{03455FF} \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}}
 \begin{array}{r}
 11 \\
 +AF21563 \\
 \underline{FABAA03} \\
 1A9DBF64_{16} \\
 \hline
 \end{array}
 \rightarrow RTN$$

$$\begin{array}{r}
 -DEF85 \\
 \underline{DD5533E} \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}}
 \begin{array}{r}
 1111 \\
 +DEF85 \\
 \underline{22AACC2} \\
 2389C47 \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}} -DCT63B9_{16} \rightarrow RTN$$

$$\begin{array}{r}
 -254889 \\
 \underline{1256333} \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}}
 \begin{array}{r}
 111 \\
 +254889 \\
 \underline{EDA9CCB} \\
 EFF556 \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}} -1001AAA_{16} \rightarrow RTN$$

$$\begin{array}{r}
 -5BFED \\
 \underline{ABEF3} \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}}
 \begin{array}{r}
 11 \\
 +5BFED \\
 \underline{5910D} \\
 ADOFA \\
 \hline
 \end{array}
 \xrightarrow{C_{F+1}} -52F06_{16} \rightarrow RTN$$

p.10

17] a) $136 + 116 = 252$

$$\begin{array}{r}
 \textcircled{1} \quad \begin{array}{r} \textcircled{1} \\ + 0001 \\ 0001 \\ \hline 0010 \end{array} \quad \begin{array}{r} \textcircled{3} \\ + 001111 \\ 0001 \\ \hline 0101 \end{array} \quad \begin{array}{r} \textcircled{6} \\ + 01110 \\ 0110 \\ + 1100 \\ 0110 \\ \hline 0010 \end{array} \\
 \textcircled{2} \quad \quad \quad \textcircled{9} \quad \quad \quad \textcircled{2}
 \end{array}$$

b) $257 + 396 = 543$

$$\begin{array}{r}
 \textcircled{2} \quad \begin{array}{r} \textcircled{3} \\ + 0011 \\ 0010 \\ \hline 0101 \end{array} \quad \begin{array}{r} \textcircled{9} \\ + 01001 \\ 0100 \\ \hline 1001 \end{array} \quad \begin{array}{r} \textcircled{6} \\ + 0110 \\ 0111 \\ + 1101 \\ 0110 \\ \hline 0011 \end{array} \\
 \textcircled{5} \quad \quad \quad \textcircled{9} \quad \quad \quad \textcircled{3}
 \end{array}$$

c) $555 + 178 = 733$

$$\begin{array}{r}
 \textcircled{1} \quad \begin{array}{r} \textcircled{5} \\ + 0101 \\ 0001 \\ \hline 0110 \end{array} \quad \begin{array}{r} \textcircled{5} \\ + 01101 \\ 0111 \\ \hline 1101 \\ 0110 \\ \hline 0011 \end{array} \quad \begin{array}{r} \textcircled{5} \\ + 0101 \\ 1000 \\ + 1101 \\ 0100 \\ \hline 0011 \end{array} \\
 \textcircled{7} \quad \quad \quad \textcircled{3} \quad \quad \quad \textcircled{3}
 \end{array}$$

d) $078 + 143 = 221$

(6)	(7)	(8)
① + 0'1'1'0'	② + 0'1'1'1'	③ + 1'0'0'0
0'0'0'1	0'1'0'0	0'0'1'1
1'0'0'0	+ 1'1'0'0	+ 1'0'1'1
(8)	0'1'1'0	0'1'1'0
	0'0'1'0	0'0'0'1
	(2)	(1)

p.12

p.12

e) $123 + 567 = 690$

(5)	(6)	(7)
① + 0'1'0'1	② + 0'1'1'0	③ + 0'1'1'1
0'0'0'1	0'0'1'0	0'0'1'1
0'1'1'0	1'0'0'1	+ 1'0'1'0
(6)	(9)	+ 0'1'1'0
		0'0'0'0
		(0)

f) $567 + 789 = 1356$

(7)	(8)	(9)
⑤ + 0'1'1'1'1'	⑥ + 1'0'0'0	⑦ + 1'0'0'1
0'1'0'1	0'1'1'0	0'1'1'1
+ 1'1'0'1	+ 1'1'1'1	+ 1'0'0'0
0'1'1'0	0'1'1'0	0'1'1'0
0'0'1'1	0'1'0'1	0'1'1'0
(3)	(5)	(6)

$$18) \quad 623 - 192 = 436$$

$$\begin{array}{r} \\ \underline{ } \\ \end{array} \rightarrow 858$$

C_{92}

$\begin{array}{r} \textcircled{6} \\ 0110 \\ \textcircled{8} 1000 \\ \hline 1110 \\ 0110 \\ \hline 0100 \end{array}$ <p>$\textcircled{4}$</p>	$\begin{array}{r} \textcircled{2} \\ 0110 \\ \textcircled{8} 0101 \\ \hline 1000 \\ \textcircled{8} \end{array}$	$\begin{array}{r} \textcircled{8} \\ 1000 \\ 1000 \\ \hline 10000 \\ 0110 \\ \hline 0110 \end{array}$ <p>$\textcircled{6}$</p>
---	--	--

$$b) \quad 741 - 133 = 608$$

$$\begin{array}{r} \\ \underline{ } \\ \end{array} \rightarrow 867$$

C_{92}

$\begin{array}{r} \textcircled{7} \\ +011111 \\ \textcircled{8} 1000 \\ \hline 10000 \\ 0110 \\ \hline 0110 \end{array}$ <p>$\textcircled{6}$</p>	$\begin{array}{r} \textcircled{9} \\ +01100 \\ \textcircled{9} 0110 \\ \hline 1010 \\ 0110 \\ \hline 0000 \end{array}$ <p>$\textcircled{0}$</p>	$\begin{array}{r} \textcircled{1} \\ +010101 \\ \textcircled{7} 0111 \\ \hline 1000 \\ \textcircled{8} \end{array}$
---	---	---

$$c) \quad 614 - 106 = 508$$

$$\begin{array}{r} \\ \underline{ } \\ \end{array} \rightarrow 894$$

C_{911}

$\begin{array}{r} \textcircled{6} \\ +01101 \\ \textcircled{8} 1000 \\ \hline 1111 \\ 0110 \\ \hline 0101 \end{array}$ <p>$\textcircled{5}$</p>	$\begin{array}{r} \textcircled{1} \\ +00011 \\ \textcircled{8} 1001 \\ \hline 1010 \\ 0110 \\ \hline 0000 \end{array}$ <p>$\textcircled{8}$</p>	$\begin{array}{r} \textcircled{9} \\ +0100 \\ \textcircled{8} 0100 \\ \hline 1000 \\ \textcircled{8} \end{array}$
---	---	---

$$d) 596 - 223 = 373$$

$$\begin{array}{r} \text{---} \rightarrow 777 \\ C_{911} \end{array}$$

P 74

(7)	(5)	(9)	(6)
+ 0111	+ 0111	+ 0111	+ 0111
1101	10001	1101	
0110	0110	0110	
0011	0111	0011	
(3)	(7)	(3)	

p.14

$$e) 4548 - 3336 = 1212$$

$$\begin{array}{r} \text{---} \rightarrow 6664 \\ C_{911} \end{array}$$

(6)	(4)	(5)	(9)	(8)
+ 0100	+ 0100	+ 0100	+ 0100	+ 0100
1101	1100	1101	1100	
0110	0110	0110	0110	
0000	0010	0001	0010	
(1)	(2)	(1)	(2)	

$$f) 253 - 912 = -159$$

$$\begin{array}{r} \text{---} \rightarrow 588 \\ C_{911} \end{array}$$

(2)	(5)	(3)
+ 0010	+ 0101	+ 0011
0101	1000	1000
1000	1110	1101
	0110	0110
	0100	0001
(9)	(9)	(1)

$$891 \xrightarrow{C_{911}} -159 \text{ ATX}$$

3) $573 - 174 = 399$
 $\xrightarrow{\text{Kar}}$ 399

(1)	(2)	(3)
$\begin{array}{r} 10101 \\ 10000 \\ \hline 1101 \\ 0110 \\ \hline 10011 \end{array}$	$\begin{array}{r} 10010 \\ 0111 \\ \hline 1001 \\ (9) \end{array}$	$\begin{array}{r} 11011 \\ 0110 \\ \hline 1001 \\ (9) \end{array}$
1		
$\begin{array}{r} 10011 \\ (3) \end{array}$		

p.15

79)

4)

$$\begin{array}{r}
 11011011_7 \\
 \times 11011011_7 \\
 \hline
 11011011 \\
 0- \\
 11011011- \\
 11011011- \\
 11011011- \\
 0- \\
 11011011- \\
 11011011- \\
 \hline
 1011110100001111_x
 \end{array}$$

6)

$$\begin{array}{r}
 412342_{(5)} \\
 \times 124121_{(5)} \\
 \hline
 412342 \\
 1330234- \\
 412342- \\
 3413023- \\
 1330234- \\
 412342- \\
 \hline
 113414122932_{(5)}
 \end{array}$$