

基礎理論 練習問題 No.01	クラス	番号	氏名

問1.2 進数の加算について、下記の (1) ~ (30) 問題について答えなさい。

(1)	(2)	(3)	(4)	(5)
$\begin{array}{r} 1 \\ + 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ + 1 \\ \hline 11 \end{array}$	$\begin{array}{r} 10 \\ + 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 100 \\ + 1 \\ \hline 101 \end{array}$	$\begin{array}{r} 101 \\ + 1 \\ \hline 110 \end{array}$
(6)	(7)	(8)	(9)	(10)
$\begin{array}{r} 101 \\ + 100 \\ \hline 1001 \end{array}$	$\begin{array}{r} 110 \\ + 11 \\ \hline 1001 \end{array}$	$\begin{array}{r} 1010 \\ + 101 \\ \hline 1111 \end{array}$	$\begin{array}{r} 1110 \\ + 11 \\ \hline 10001 \end{array}$	$\begin{array}{r} 10101 \\ + 10 \\ \hline 10111 \end{array}$
(11)	(12)	(13)	(14)	(15)
$\begin{array}{r} 10100 \\ + 111 \\ \hline 11011 \end{array}$	$\begin{array}{r} 10111 \\ + 11 \\ \hline 11010 \end{array}$	$\begin{array}{r} 11111 \\ + 1 \\ \hline 100000 \end{array}$	$\begin{array}{r} 10011 \\ + 1010 \\ \hline 11101 \end{array}$	$\begin{array}{r} 1111 \\ + 1010 \\ \hline 11001 \end{array}$
(16)	(17)	(18)	(19)	(20)
$\begin{array}{r} 1001 \\ + 1101 \\ \hline 10110 \end{array}$	$\begin{array}{r} 1101 \\ + 1101 \\ \hline 11010 \end{array}$	$\begin{array}{r} 10101 \\ + 1010 \\ \hline 11111 \end{array}$	$\begin{array}{r} 11011 \\ + 11111 \\ \hline 111010 \end{array}$	$\begin{array}{r} 10011 \\ + 10111 \\ \hline 101010 \end{array}$
(21)	(22)	(23)	(24)	(25)
$\begin{array}{r} 111101 \\ + 10101 \\ \hline 1010010 \end{array}$	$\begin{array}{r} 100011 \\ + 110000 \\ \hline 1010011 \end{array}$	$\begin{array}{r} 100010 \\ + 101111 \\ \hline 1010001 \end{array}$	$\begin{array}{r} 1011111 \\ + 1110 \\ \hline 1101101 \end{array}$	$\begin{array}{r} 1011010 \\ + 101011 \\ \hline 10000101 \end{array}$
(26)	(27)	(28)	(29)	(30)
$\begin{array}{r} 1011111 \\ + 110111 \\ \hline 10010110 \end{array}$	$\begin{array}{r} 1110101 \\ + 1101111 \\ \hline 11100100 \end{array}$	$\begin{array}{r} 1001101 \\ + 1010110 \\ \hline 10100011 \end{array}$	$\begin{array}{r} 1010111 \\ + 1011110 \\ \hline 10110101 \end{array}$	$\begin{array}{r} 1011110 \\ + 1011011 \\ \hline 10111001 \end{array}$

問2. 2進数の減算について、下記の(1)～(30)問題について答えなさい。

(1)	(2)	(3)	(4)	(5)
$\begin{array}{r} 10 \\ - 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 11 \\ - 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 100 \\ - 11 \\ \hline 1 \end{array}$	$\begin{array}{r} 111 \\ - 100 \\ \hline 11 \end{array}$	$\begin{array}{r} 111 \\ - 101 \\ \hline 10 \end{array}$
(6)	(7)	(8)	(9)	(10)
$\begin{array}{r} 110 \\ - 1 \\ \hline 101 \end{array}$	$\begin{array}{r} 1110 \\ - 1010 \\ \hline 100 \end{array}$	$\begin{array}{r} 10100 \\ - 1011 \\ \hline 1001 \end{array}$	$\begin{array}{r} 10001 \\ - 1110 \\ \hline 11 \end{array}$	$\begin{array}{r} 10010 \\ - 11 \\ \hline 1111 \end{array}$
(11)	(12)	(13)	(14)	(15)
$\begin{array}{r} 101010 \\ - 1011 \\ \hline 11111 \end{array}$	$\begin{array}{r} 101011 \\ - 1110 \\ \hline 11101 \end{array}$	$\begin{array}{r} 101110 \\ - 100110 \\ \hline 1000 \end{array}$	$\begin{array}{r} 100110 \\ - 1101 \\ \hline 11001 \end{array}$	$\begin{array}{r} 100100 \\ - 10111 \\ \hline 1101 \end{array}$
(16)	(17)	(18)	(19)	(20)
$\begin{array}{r} 101110 \\ - 11110 \\ \hline 10000 \end{array}$	$\begin{array}{r} 111011 \\ - 10100 \\ \hline 100111 \end{array}$	$\begin{array}{r} 101110 \\ - 101001 \\ \hline 101 \end{array}$	$\begin{array}{r} 1001111 \\ - 10111 \\ \hline 111000 \end{array}$	$\begin{array}{r} 1011111 \\ - 11111 \\ \hline 1000000 \end{array}$
(21)	(22)	(23)	(24)	(25)
$\begin{array}{r} 10110110 \\ - 1101 \\ \hline 10101001 \end{array}$	$\begin{array}{r} 10110001 \\ - 100110 \\ \hline 10001011 \end{array}$	$\begin{array}{r} 10110111 \\ - 10110010 \\ \hline 101 \end{array}$	$\begin{array}{r} 10010101 \\ 101010 \\ \hline 1101011 \end{array}$	$\begin{array}{r} 10100101 \\ 1011111 \\ \hline 1000110 \end{array}$
(26)	(27)	(28)	(29)	(30)
$\begin{array}{r} 11100111 \\ - 10110110 \\ \hline 110001 \end{array}$	$\begin{array}{r} 11010111 \\ - 1011011 \\ \hline 1111100 \end{array}$	$\begin{array}{r} 10110001 \\ - 110001 \\ \hline 10000000 \end{array}$	$\begin{array}{r} 10101101 \\ - 111011 \\ \hline 1110010 \end{array}$	$\begin{array}{r} 11010111 \\ - 10010101 \\ \hline 1000010 \end{array}$