

Prática 03

Atividade 01 $\bar{A}\bar{B} + \bar{A}B = 2$

a) $+32_{10} = 00100000_2$

b) $+14_{10} = 00001110_2$
 11110001
 $+1$
 11110010

c) $+63_{10} = 00111111_2$

d) $+104_{10} = 01101000_2$
 10010111
 $+1$
 110011000_2

e) $+127_{10} = 01111111_2$

$\bar{A}\bar{B}$	1	1	0	1
$\bar{A}B$	1	0	0	1
AB	0	0	0	0
$A\bar{B}$	1	1	0	1

$-14_{10} = 11110010_2$

$\bar{A}\bar{B}$	1	1	0	1
$\bar{A}B$	0	0	0	0
AB	0	1	1	1
$A\bar{B}$	x	1	1	1

$-104_{10} = 10011000_2$

$\bar{A}\bar{B}$	1	1		
$\bar{A}B$				
AB	x	x	x	x
$A\bar{B}$	x	x	1	

Prática 03

Atividade 01

SO abastecido

$$f) +127_{10} = 01111111_2 \quad -127_{10} = 10000001_2$$

$$\begin{array}{r} 01111111 \\ 10000000 \\ \hline 10000001 \end{array}$$

$$g) +89_{10} = 01011001_2$$

$$h) +55_{10} = 00110111_2 \quad -55_{10} = 11001001_2$$

$$\begin{array}{r} 00110111 \\ 11001000 \\ \hline 11001001 \end{array}$$

$$i) +1_{10} = 00000001_2 \quad -1_{10} = 11111111_2$$

$$\begin{array}{r} 00000001 \\ 11111110 \\ \hline 11111111 \end{array}$$

j) Overflow

$$l) 0_{10} = 00000000_2$$

k) Overflow

p) Overflow.

$$m) +84_{10} = 01010100_2$$

$$n) +3_{10} = 00000011_2$$

$$o) +3_{10} = 00000011_2 \quad -3_{10} = 11111101_2$$

$$\begin{array}{r} 00000011 \\ 11111100 \\ \hline 11111101 \end{array}$$

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Atividade 02

$$\begin{array}{r}
 a) \quad 11010_2 - 10_{10} \\
 + \quad 1011_2 - 11_{10} \\
 \hline
 10101_2 - 21_{10}
 \end{array}$$

$$\begin{array}{r}
 h) \quad 111001100_2 - 204_{10} \\
 + \quad 00110111_2 - 55_{10} \\
 \hline
 100000011_2 - 259_{10}
 \end{array}$$

$$\begin{array}{r}
 b) \quad 1111_2 - 15_{10} \\
 + \quad 0011_2 - 3_{10} \\
 \hline
 10010_2 - 18_{10}
 \end{array}$$

$$\begin{array}{r}
 i) \quad 11001010011_2 - 3235_{10} \\
 + \quad 01110111001_2 - 1913_{10} \\
 \hline
 101000011100_2 - 5148_{10}
 \end{array}$$

$$\begin{array}{r}
 c) \quad 10101101_2 - 11,8125_{10} \\
 + \quad 11,1_2 - 3,5_{10} \\
 \hline
 1111,0101_2 - 15,3125_{10}
 \end{array}$$

$$\begin{array}{r}
 j) \quad 1010_2 - 10_{10} \\
 - \quad 111_2 - 7_{10} \\
 \hline
 0011_2 - 3_{10}
 \end{array}$$

$$\begin{array}{r}
 d) \quad 0,101_2 - 0,6875_{10} \\
 0,1111_2 - 0,9375_{10} \\
 1,1010_2 - 1,625_{10}
 \end{array}$$

$$\begin{array}{r}
 k) \quad 101010_2 - 42_{10} \\
 - \quad 100101_2 - 37_{10} \\
 \hline
 000101_2 - 5_{10}
 \end{array}$$

$$\begin{array}{r}
 e) \quad 1001011_2 - 155_{10} \\
 10011101_2 - 157_{10} \\
 \hline
 100111000_2 - 312_{10}
 \end{array}$$

$$\begin{array}{r}
 l) \quad 1111,010_2 - 15,25_{10} \\
 - \quad 1000,001_2 - 8,125_{10} \\
 \hline
 0111,001_2 - 7,125_{10}
 \end{array}$$

$$\begin{array}{r}
 f) \quad 1010,010_2 - 10,25_{10} \\
 10,111_2 - 2,875_{10} \\
 \hline
 1101,001_2 - 13,125_{10}
 \end{array}$$

$$\begin{array}{r}
 m) \quad 101011_2 - 19_{10} \\
 - \quad 00110_2 - 6_{10} \\
 \hline
 01101_2 - 13_{10}
 \end{array}$$

$$\begin{array}{r}
 g) \quad 10001111_2 - 143_{10} \\
 + \quad 01010001_2 - 81_{10} \\
 \hline
 11100000_2 - 224_{10}
 \end{array}$$

$$\begin{array}{r}
 n) \quad 11100010_2 - 226_{10} \\
 - \quad 01010001_2 - 81_{10} \\
 \hline
 10010001_2 - 145_{10}
 \end{array}$$

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Atividade 02

e) $11010110_2, 110101_2 - 35,5625_{10}$

$$\underline{001111, 0010}_2 = 15,125_{10}$$

$$010011,0111_2 = 20,4375_{10}$$

p) $10^{10-1} 10100110_2 - 710_{10}$

$$-1001110100_2 = -628_{10}$$

$$0001010010_2 - 82_{10}$$

Atividade 03

A	B	Carry In	Sum	Carry Out
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

A	B	Borrow In	Diff	Borrow Out
0	0	0	0	0
0	0	1	1	1
0	1	0	1	1
0	1	1	0	1
1	0	0	1	0
1	0	1	0	0
1	1	0	0	0
1	1	1	1	1