

PROVA INTRODUÇÃO A COMPUTAÇÃO

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1- a) $\begin{array}{r} 1101 \\ + 101 \\ \hline 10010 \end{array}$

b) $\begin{array}{r} 100011 \\ + 10010 \\ \hline 110101 \end{array}$

c) $\begin{array}{r} 1010 \\ + 1001 \\ \hline 10011 \end{array}$

2) a) $\begin{array}{r} 1110 \\ - 101 \\ \hline 1001 \end{array}$

b) $\begin{array}{r} 110110 \\ - 1001 \\ \hline 101101 \end{array}$

3) $\begin{array}{r} 100100 \\ - 1101 \\ \hline 1100 \end{array}$ $\begin{array}{r} 1100 \\ - 1100 \\ \hline 000000 \end{array}$

128 64 32 16 8 4 2 1

$$4-a) -17 = 010001 - C_1 = 101110$$

$$\begin{array}{r} 101110 \\ +0 \\ \hline 101110 = -17 \end{array}$$

$$b) -33 = 0100001 - C_1 = 1011110$$

$$\begin{array}{r} 1011110 \\ +1 \\ \hline 1011111 = -33 \end{array}$$

$$c) -33 - 17$$

$$\begin{array}{r} 1011111 \\ - 1011111 \\ \hline 10000110 = -50 \end{array}$$

$$d) -6 - C_1 = 001$$

$$\begin{array}{r} 001 \\ +110 \\ \hline 010 = -6 \end{array}$$

$$e) -101 - C_1 = 010$$

$$\begin{array}{r} 010 \\ +1 \\ \hline 011 = -5 \end{array}$$