

Turmas TA1/TA2

1.a) $01001110 = 2^1 + 2^2 + 2^3 + 2^6$
 $\begin{matrix} 7 & 6 & 5 & 4 & 3 & 2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 1 & 1 & 0 \end{matrix} = \boxed{78}$

1.b)

Divisão inteira	Resto
97 / 2	1
48 / 2	0
24 / 2	0
12 / 2	0
6 / 2	0
3 / 2	1
1 / 2	1
0	

$97 = 1100001$

Representando com 8 bits:
 01100001

-97 em complemento de 2:

01100001
 10011110 \leftarrow inverter bits
 $\boxed{10011111}$ \leftarrow somar 1

1.c)

$$\begin{array}{r} 01001110 \\ + 10011111 \\ \hline \boxed{11101101} \end{array}$$

Turma TM3

$01001111 = 2^0 + 2^1 + 2^2 + 2^3 + 2^6$
 $\begin{matrix} 7 & 6 & 5 & 4 & 3 & 2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 1 & 1 & 1 \end{matrix} = \boxed{79}$

Igual a TA1/TA2

$$\begin{array}{r} 01001111 \\ + 10011111 \\ \hline \boxed{11101110} \end{array}$$