$247 = 2 \times 123 + 1$ LSB
$123 = 2 \times 61 + 1$
$61 = 2 \times 30 + 1$
$30 = 2 \times 15 + 0$
$15 = 2 \times 7 + 1$
$7 = 2 \times 3 + 1$
$3 = 2 \times 1 + 1$
$1 = 2 \times 0 + 1$ MSB

$0.351 \times 2 = \underline{0}.702$ MSB
$0.702 \times 2 = \underline{1}.404$
$0.404 \times 2 = \underline{0}.808$
$0.808 \times 2 = \underline{1}.616$
$0.616 \times 2 = \underline{1}.232$
$0.232 \times 2 = \underline{0}.464$
$0.464 \times 2 = \underline{0}.928$
$0.928 \times 2 = \underline{1}.856$ LSB

$(247.351)_{10} = (11110111.010111001000)_2$

b) $X - Y = 11010101 - 11100101 = X + (-Y)$
$= X + C_2(Y)$

$C_2(Y) = C_1(Y) + 1 = 00011010 + 1 = 00011011$

$X - Y = 11010101 + 00011011$

$$\begin{array}{r} 11010101 \\ +\ 00011011 \\ \hline 11110000 \end{array}$$

Como $X < Y$, $X - Y < 0$, bit de sinal $= 1$

$(X-Y)_{\text{compl.2, notação sinal}} = 111110000$

c) $(\ )_{BCD} \rightarrow (\ )_{10}$

$X_{BCD} =$ [0111][0101][0011][1001]
7 5 3 9

$X_{BCD} = (7539)_{10}$