1) $x = 73,75$; $y = 5,25$

a) $\bullet (73,75)_2 = \overline{1001001,11}$

73	1
36	0
18	0
9	1
4	0
2	0
1	1
0	

$0,75 \cdot 2 = 1,5$ ↓

$0,5 \cdot 2 = 1,0$ ↓

$0,0 \rightarrow$ STOP

$\bullet (5,25)_2 = \overline{101,01}$

(PS: AVEȚI TABELUL LA EXAMEN, DECI NU TB. SĂ MAI FACEȚI DESCOMPUNEREA LUI 5, DAR ÎL SCRIEȚI CU CÂT E EGAL ÎN BAZA 2 SEPARAT, I.E...)

$(5)_2 = \overline{101}$

$0,25 \cdot 2 = 0,5$ ↓

$0,5 \cdot 2 = 1,0$ ↓

$0,0 \rightarrow$ STOP

b) $\bullet \underline{(73}\underline{,75)_2} = \underline{1001}\underline{001}\underline{,11} = (?)_{16} = \overline{49,C_{(16)}}$

$\overline{0100_{(2)}} = 4_{(16)}$

$\overline{1001_{(2)}} = 9_{(16)}$

$\overline{1100_{(2)}} = C_{(16)}$

$\bullet \underline{(5,25)_2} = \underline{101,01} = (?)_{16} = \overline{5,4_{(16)}}$

$\overline{0101_{(2)}} = 5_{(16)}$

$\overline{0100_{(2)}} = 4_{(16)}$

c) $X - Y = \overline{49,C}_{(16)} - \overline{5,4}_{(16)} = \overline{44,8}_{(16)}$

$49,C -$ $\quad C = 12$

$5,4$ $\quad 12 - 4 = 8 = 8_{(16)}$

$44,8$

d) $\left(\overline{44,8}_{(16)}\right)^{-1} = 4 \cdot 16^1 + 4 \cdot 16^0 + 8 \cdot 16^{-1} =$

$= 4 \cdot 16 + 4 + 8 \cdot \frac{1}{16_2} = 68 + \frac{1}{2} = 68,5$