TEMA 2

7.1.

a) $1101_{(2)} = ?_{(10)}$

$1101_{(2)} = 2^0 + 2^2 + 2^3 = 1 + 4 + 8 = 13_{(10)}$

b) $1B_{(16)} = ?_{(10)}$

$1B_{(16)} = 1 \cdot 16^0 + 1 \cdot 16 = 11 + 16 = 27_{(10)}$

c) $321_{(5)} = ?_{(4)}$

$321_{(5)} = 1 \cdot 5^0 + 2 \cdot 5^1 + 3 \cdot 5^2 = 1 + 10 + 75 = 86_{(10)}$

$86_{(10)} = ?_{(4)}$

$86 : 4 = 21$ rest 2

84

$= 2$

$21 : 4 = 5$ rest 1

20

$= 1$

$5 : 4 = 1$ rest 1

4

1

$1 : 4 = 0$ rest 1

$86_{(10)} = 1112_{(4)}$

d) $33 - 16$ in baza 8

$33_{(8)}$

$-\ 16_{(8)}$

$15_{(8)}$

$33_{(8)} - 16_{(8)} = 15_{(8)}$