4 Integer Reflesentation

4.1 Write [10001010111] z in base 10

First we calculate 
$$(1 \cdot 2^{t} + 1 \cdot$$

1583- 656-5+1

4.2 first we convert (1032173)4 to base 10 1-4+3-4+2-4-1-4+1.4+3 4096 + 768 + 128 + 16 + 4 + 3 = 5015 Then we find the binary expansion of GOB)10 5015= 2507-2+1 2507= 1263.2+1 12535626.2+1 626 = 313.Z+O 313 0 156.2+1 1565 78-Z+6 Z8 = 34.2+0 39 = 19.2 +1 19= 9-2+1 9=4.2+1 4 = Z.Z +0 Z = Z.1 +0 1: 2.0 +1 (1032113)4 = (1001176010117)z