① $M(6, -10, 10)$

a) $\varepsilon_0 = [100000 \mid -10]$

$= \left(1 \cdot \frac{1}{2}\right) \cdot 2^{-10} = 2^{-11} = \frac{1}{2048}$

$M_\infty = [111111 \mid 10]$.

$= \left(\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64}\right) \cdot 2^{10} =$

$= \frac{32+16+8+4+2+1}{64} \cdot 2^{10} = \frac{63}{64} \cdot 2^{10} = 63 \cdot 2^4$

$= 1008$

$[101001 \mid 5]$

$\frac{1}{2^1}$ $\frac{1}{2^2}$ $\frac{1}{2^6}$

$63 \cdot 11$

378

63

1008

$M(6, -10, 10)$

$1 = [1\,00000 \mid 1]$

↳ $\frac{1}{2} \cdot 2^1 = 1$

$\varepsilon_1 = [100001 \mid 1] -$

$-[100000 \mid 1]$

$= \left[\left(\frac{1}{2} + \frac{1}{64}\right) \cdot 2^1\right] - 1 = -1 + \frac{33}{64} \cdot 2 = \frac{33}{32} - 1 = \frac{1}{32}$

$|M| = 2 \cdot 2^{6-1}\left(10 - (-10) + 1\right) + 1$

$= 64 \cdot 21 + 1 = 1344 + 1 = 1345$

$M(6, -10, 10)$ $\frac{1}{3}$

b) $fl(137) = [100010 | 8] =$

$= \left(\frac{1}{2} + \frac{1}{32}\right) \cdot 2^8 = \frac{17}{2^5} \cdot 2^8 = 17 \cdot 8$

$= 136$

$[100011 | 8] = \left(\frac{1}{2} + \frac{1}{32} + \frac{1}{64}\right) \cdot 2^8$

$= 140$

$\pi = 3,1\ldots$

137	
68	1
34	0
17	0
8	1
4	0
2	0
1	0
0	1

$137_{10} = 1000\,1001_2$

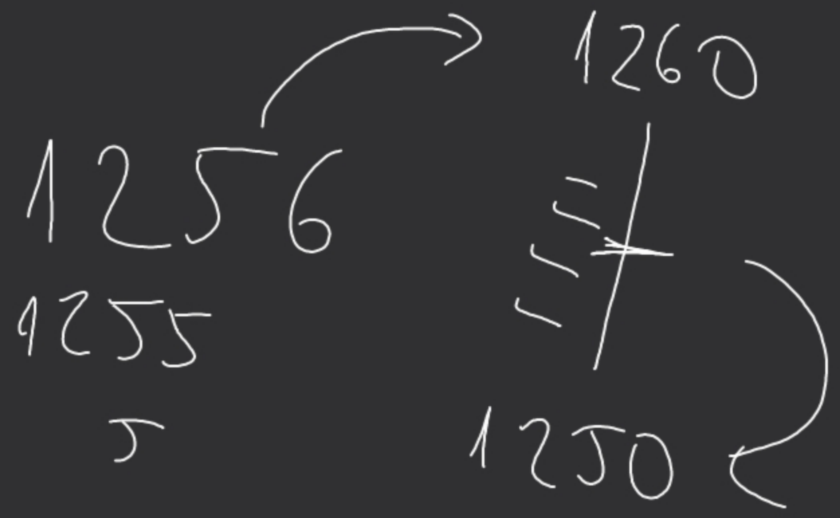
100010 | 01.

100011 | 10

100100

12 | 5

1200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