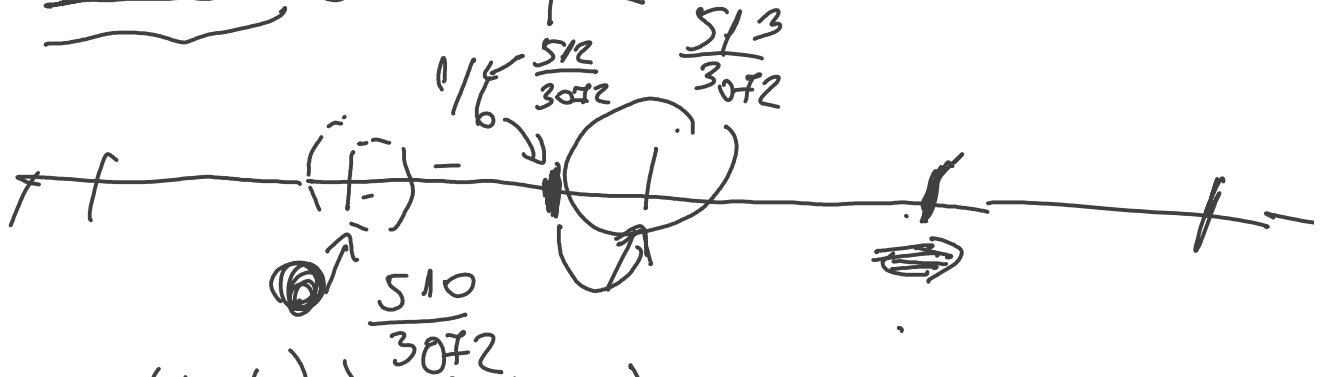


$$1/6 = 1.1666\dots \quad \& P(1/6)$$

$$f(0.17) = [10101 | 110 | -2] =$$

$$\underline{f(0.167)} = [10101 | 011 | -2] = \frac{513}{3072}$$



$$\cancel{f(1/6)} \neq f(0.17) =$$

$$f(1/6) = f(0.167)$$

$$c) f(1/6) = [10101011 | -2]$$

$$f(3.14) = [11001001 | 2]$$

$$f(1/6) + f(3.14) = ?$$

$$f(3.14) = 11.001001$$

$$f(1/6) = 0.0010101011$$

$$11.001001$$

$$0.0010101011$$

$$\overline{11.0100111011}$$

$$f(1/2) + f(3/4) = [11010100 | 2]$$

$$\begin{array}{r} 0.124 \\ 0.1246 \quad \uparrow 0.001 \\ \quad \quad \quad \uparrow 0.0005 \\ 0.125 \end{array} \quad \begin{array}{r} 1240 \\ 1246 \\ 1250 \end{array} \quad \begin{array}{r} 2 \\ 5 \end{array}$$

$$\begin{array}{l} 0.0010101110 \\ \left[110101110 | -2 \right] \rightarrow \frac{1}{2} \cdot 2^{10} = 2^{11} \\ \frac{1}{2} \cdot 2^{-8-2} \quad \frac{1}{2} \cdot 2^{-2-8} \\ \Delta f(x) = \frac{1}{2} \cdot 2^{-1+2} \end{array}$$

$$0.1234 + 0.1234$$

$$\Delta = 0.0005$$

$$0.005$$

$$0.2468 \rightarrow 0.246$$

$$\begin{array}{r} 0.247 \\ 0.24 \\ 0.25 \end{array} \quad \begin{array}{r} 0.247 \\ 0.0005 \\ 0.005 \end{array}$$

$$f(3,14) = [11001001 | 2]$$

$$\begin{array}{l} \Delta f(3,14) = \frac{1}{2} 2^{-6} = 2^{-7} \\ = \frac{1}{2} 2^{-8+2} = 2^{-7} \end{array}$$

1.4.*

$$\begin{aligned} a) \quad a &= fl(8) = [1000000/4] \\ b &= fl(1/6) = [1000000/-3] \\ a+b &= [6000000/4] \\ &= [1000000/4] \\ &= [1000000/4] \end{aligned}$$

$$a+b = a$$

$$\begin{aligned} (a+b)+b &= a+b \\ &= a \end{aligned}$$

$$\begin{aligned} b) \quad b+b &= [1000000/-3] + \\ & \quad [1000000/-3] \end{aligned}$$

$$= 2 \cdot b$$

$$= 2 \cdot [1000000/-3]$$

$$= [1000000/-2]$$

$$\begin{aligned} a+(b+b) &= [1000000/4] + \\ & \quad [1000000/-2] \end{aligned}$$

$$= 0$$

$$\begin{aligned} [1000000/-2] &= 0.1000000 \cdot 2^{-2} \\ &= 0.0000000/1 \cdot 2^4 \end{aligned}$$

$$= [000001 / 4]$$

$$a + (b + b) = [100000 / 4] + [000001 / 4]$$

$$a + (b + b) = [100001 / 4]$$

$$(a + b) + b = [100000 / 4]$$

$$c) \quad a + a = [100000 / 4] + [100000 / 4]$$

$$M(6, \textcircled{-4, 4}) \quad \begin{array}{l} 1.000000 \\ [100000 / 5] \\ \hline \text{inf} \end{array}$$