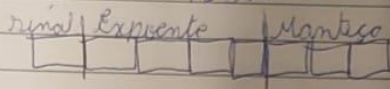
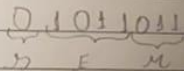


1 IEEE 754 4E3M



2) 5B (IEEE 754 4E3M)

$$B = M - R$$

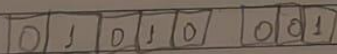


$$Y = 11 - R$$

$$B = 2 \quad \begin{matrix} \text{len}(E) = 1 \\ -1 + 2 - 1 = 7 \end{matrix} \quad \begin{matrix} Y = 11 - R \\ -R = -4 \\ R = 4 \end{matrix}$$

$$1,011 \cdot 2^4 \rightarrow 10110 = 22$$

b) 9,25<sub>(10)</sub>  $\rightarrow$  (IEEE 754)  $\begin{matrix} 0,25 \times 2 = 0,5 \\ 0,5 \times 2 = 1,0 \end{matrix}$   
1001,1



$$B = M - R$$

$$Y = M - 3$$

$$M = 10$$

$$1,0011 \cdot 2^3$$

$$2^{4-1} = 7$$

2- IEEE 8E 23M

a) 803 ACAB.A 8E 23M

1 0000000.0011.1010.1100.1010.1011.1010

$$B = 2^{8-1} = 127 \quad B = M - R \quad 127 = 4 - R + 126 = -R + R = -125$$

Harry Potter

Jandaia

1,11010011.2<sup>5</sup>

1 1000 0100 1101 0011 0000 0000 0000 0000  
c 2 6 9 8 0 0 0

4-a) 10 { 1000 0001 } 0110 0000 0000 0000 0000 0000  
8E 23M  
2<sup>8-1</sup> - 1 = 127

127 = 129 - R  
- R = 127 - 129  
R = 2  
1,0110 0000 0000 0000 0000 0000 2<sup>8</sup>  
1011. 0  
11 = 5,5  
2

b) 1 { 1000 0001 } 0001 0000 0000 0000 0000 0000  
8E 23M

2<sup>8-1</sup> - 1 = 127  
B = M - R  
127 = 129 - R  
- R = -2  
R = 2  
- 1,0001. 2<sup>8</sup>  
- 100, 01. 2<sup>8</sup>  
- 10001. 2<sup>8</sup>  
17  
4

6.