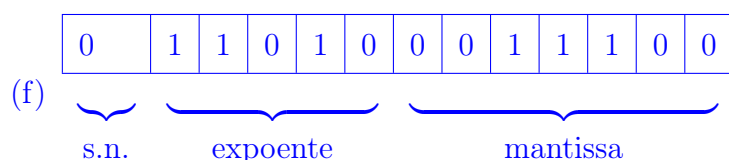
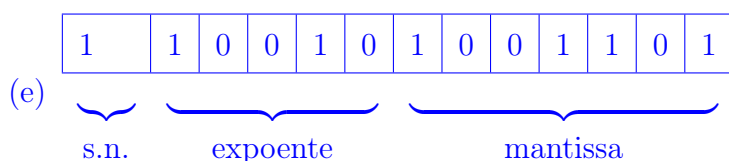
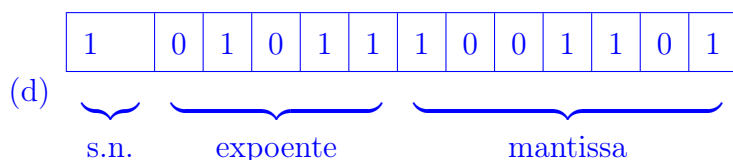
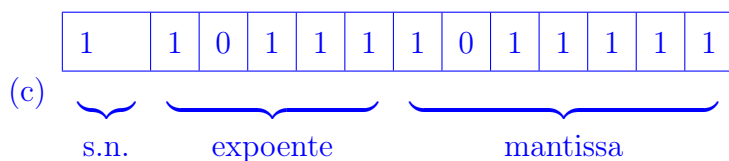
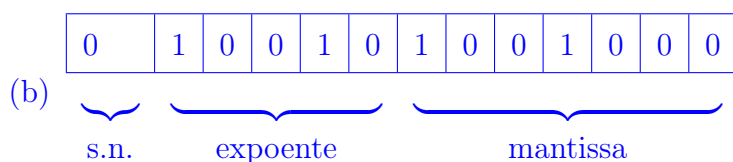
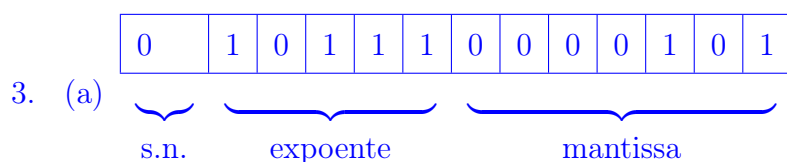


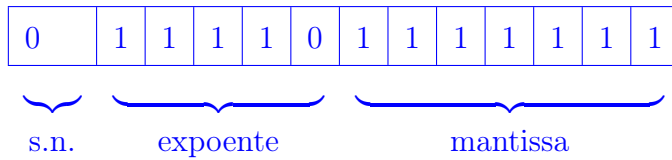
Cálculo Numérico - IME/UERJ

Gabarito - Lista de Exercícios 1 - Aritmética de ponto flutuante

1. (a) 19 (d) 1,5 (g) 12,25
 (b) 226 (e) 1,59375 (h) 0,328125
 (c) 65 (f) 12,625 (i) 0,890625
2. (a) 10111 (d) 10,1 (g) 1010,000011
 (b) 11111111 (e) 0.00011 (h) 111111,11001111010111000011
 (c) 101000110111 (f) 11,1100 (i) 0,1100
 (com 20 casas)

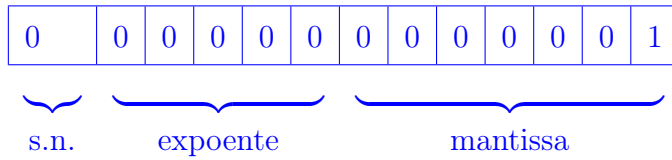


4. (a) (3-a) 266; (3-b) 12,5 (exato); (3-c) -446; (3-d) 0,10009765625
 (3-e) -12,8125 (3-f) 2496
- (b) Maior número positivo



$$1,1111111 \times 2^{15} = (65280)_{10}$$

Menor número positivo (o número positivo mais próximo de zero está na forma desnormalizada)



$$0,0000001 \times 2^{-14} = 2^{-21} \approx 4.7684 \times 10^{-7}$$

- (c) 100,5
- (d) 19,875