1. a) 5.75   Josue Contreras

2 | 5   1   0.75 × 2 = 1.5   1
  | 2   0   0.5 × 2 = 1   1
  | 1   1   0   × 2   0   0

          | 101. 11 |

    b) 63/64 = 0.984375

0.984375 × 2   1.96875   1
0.96875 × 2 | 1.9375   1
0.9375 × 2   1.875   1
0.875 × 2   1.75   1
0.75 × 2   1.5   1
0.5   × 2   1   1
0   × 2   0   0

        | 0. 111111 |

    c) 9.8125

2 | 9   1 =   0.8125 × 2   1.625   1
  | 4   0   0.625 × 2   1.125   1
  | 2   0   0.25 × 2   0.50   0
  | 1   1   0.5   × 2   1   1
              0   × 2   0   0

        | 1001.1101 |

2) 34.890625

sign : + = 0

$2\lfloor34$

2⌊34	0	.890625	×2	1.78125	1
17	1	.78125	×2	1.5625	1
8	0	.5625	×2	1.125	1
4	0	.125	×2	0.25	0
2	0	.25	×2	0.5	0
1	1	.5	×2	1	1

$100010.111001 = 1.000101111001 \times 2^5$

0	1 0 0 0 0 1 0 1	0 0 0 1 0 1 1 1 1 0 0 1

3) | 0 | 0 1 1 1 1 1 0 1 1 | [all zeros]
|---|---|---|

01110.11

0 1 1 1 0 1 1 0 0 0