Samuel Haberkorn

Assembly

HW1

1)

|  |  |  |  |
| --- | --- | --- | --- |
| Binary | Decimal | Hex | Octal |
| 1101 1001 | 217 | D9 | 331 |
| 1011 0111 | 183 | B7 | 267 |
| 1100 1010 | 202 | CA | 312 |
| 0101 1110 | 94 | 5E | 136 |
| 1001 1110 | 158 | 9E | 236 |

2)

Separate submission

3a)

0x979899

3b)

9935001

4)

Separate submission

5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Description | Hex | M | E | V | D |
| -0 | 0x8000 | 0/1 | 0 | -0 | -0.0 |
| Smallest > 2 | 0xb801 | 1/1024 | 1 | 2 | 2.00097656 |
| 512 | 0x6000 | 0/1 | 9 | 512 | 512.0 |
| Largest Denormalized | 0x03ff | 1023/1024 | -14 | 0 | 0.000061035156 |
| * Infinity | 0xfc00 | N/A | N/A | * infitity | -Infinity |
| Hex | 3BB0 | 944/1024 | -8 | 1x2^-8 | 0.0075073242 |