

HW3.2. Floating Point to Binary (Randomized)

Feel free to check out the [guide](#) that we have prepared to help you in this problem.

For the following questions, we will be following the IEEE-754 Floating Point standard *but with different numbers of bits*: with 5 exponent bits (using an exponent bias of -15) and 13 mantissa bits.

Translate the following numbers to IEEE-754 binary notation. Do not include the binary prefix.

Q1.1:

1.5=

?

Q1.2:

1.6875*2^-15=

?

Q1.3:

-6=

?

Translate the following numbers from IEEE-754 binary notation to decimal. If the number is infinite or a NaN, submit "inf" and "NaN", respectively

Q2.1:

0b01111100000000000001=

?

Q2.2:

0b00111100100000000000=

?

Q2.3:

0b01111100000000000000=

?

Save & Grade

20 attempts left

Save only

Additional attempts available with new variants ?

Homework 3

Assessment overview

Total points:

50/100

Score:

50%

Question

Value:

50

History:

Awarded points:

0/50

Report an error in this question

Previous question

Next question

Attached files

No attached files

Attach a file

Attach text