COMP.2030 LAB 7 11/1/23

NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Suppose are representing real numbers by the IEEE floating format with 5 exponent bits and 8 fraction bits (ignore the sign bit).
   1. What is the floating-point representation of the decimal number 7 in this format?

Exponent\_\_\_\_\_\_\_\_ Fraction\_\_\_\_\_\_\_\_

* 1. What is the floating-point representation of the binary number 1.0011x2-2 in this format?

Exponent\_\_\_\_\_\_\_\_ Fraction\_\_\_\_\_\_\_\_

* 1. What is the floating-point representation of the binary number 1.0011x2-13 in this format?

Exponent\_\_\_\_\_\_\_\_ Fraction\_\_\_\_\_\_\_\_

1. Convert the DECIMAL value 11.1 into the IEEE floating format with a sign bit, a 5-bit exponent field, and a 10-bit fraction. Write your final 16-bit answer in Hexadecimal.