

# Spring 2021 Intro, Approx and Errors: Chapter 01.07

## Concept Questions

...

Hi Autar, when you submit this form, the owner will be able to see your name and email address.

1. A function is continuous and differentiable for  $x \geq 2$ . Only the first and second derivatives are non-zero. All other higher derivatives are zero. Given is  $f(7)=10$ ,  $f(2)=5$  and  $f'(2)=11$ .

What is the value of  $f''(2)$ ?

2. A hypothetical computer stores base-10 numbers in a floating-point format in 8-bit binary words. The first bit is used for the sign of the number; the next five bits for the biased exponent; the last two bits for the magnitude of the mantissa.

What will be the in the five bits for the biased exponent for a binary number (110.011)? Enter your answer in XXXXX format.

Submit

This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

Powered by Microsoft Forms | [Privacy and cookies](#) | [Terms of use](#)