Spring 2021 Intro, Approx and Errors: Chapter 01.07

Concept Questions

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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>=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)?

   > Enter your answer

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.

   > Enter your answer

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