



# SF2719/2725 History of Mathematics, Fall 2022

## Quiz 3

**Name:**

**Personal Number:**

Lecturer: Tilman Bauer  
Date: September 27, 2022  
Time: 1:15-1:30 pm  
Allowed aids: none

Answer each question briefly in the space provided.

1. Where does our notation  $\int f(x) dx$  for an integral come from? Explain what the parts originally meant, who came up with this notation, and around what time.
2. Name a contribution of Fermat to the development of calculus.

3. Given an example of the use of power series in Newton's work.

4. What does it mean for the real numbers to be "complete"? Who was first to recognize the importance of this fact in calculus, and when?