KTH vetenskap voch konst

SF2719/2725 History of Mathematics, Fall 2022

Quiz 1

Name:

Personal Number:

Lecturer: Tilman Bauer / Mats Boij Date: September 6, 2022 Time: 1:15-1:30 pm Allowed aids: none

Answer each question briefly in the space provided.

1. In ancient Egyptian hieroglyphic texts, what system was used for denoting natural numbers? How would they have denoted the fractional number 3.75?

2. What kinds of written documents do we have from ancient Mesopotamia? From what time period are these, roughly?

3. Put the following Greek mathematicians into chronological order: Archimedes, Diophantus, Euclid, Thales.

4. Which of the following topics are touched upon in Euclid's Elements:

- congruence of triangles
 similarity of three-dimensional solids
 functions
 convergence of sequences
 area computations
 prime numbers
 irrational numbers
 - transcendental numbers
 - probabilities