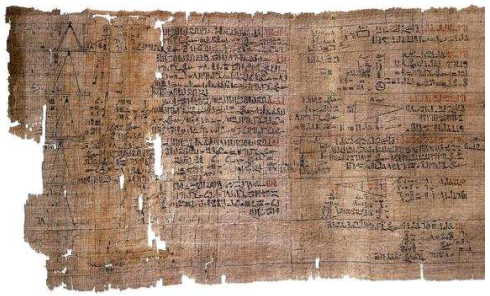
Lecture 2: Quiz

Name:

Problem 1



This document is the

YBC 7289	
Ishango papyrus	
Bakshali Manuscript	
Plympton 322	
Rynd papyrus	

Problem 2

a) Mayan mathematician used which base for their computations.

6	
10	
12	
20	
60	

b) Which integer does this **hieroglyph** represent?

Problem 3

Order the following sets of numbers in in increasing order. Start with the smallest set and give it the number 1, then give the next bigger set the number 2 etc.

complex numbers	
rational numbers	
natural numbers	
integers	
real numbers	
algebraic numbers	

Problem 4

Which of the following numbers are known to be irrational?

π	
e	
$\sqrt{2}$	
$1/\sqrt{4}$	
$1/\sqrt{5}$	
$\log_{10}(5)$	

Problem 5

Check the statements which are true. If α, β are irrational numbers, then in any case:

$\alpha + \beta$ is irrational	
$\alpha \cdot \beta$ is irrational	
α^β is irrational	
α^2 is irrational	
$\sqrt{\alpha}$ is irrational	
α^α is irrational [tough!]	

Problem 6

In which time period do the Clay tablets in Mesopotamia belong?

$1500BC$	
$1500AC$	
$1700BC$	
$1700AC$	