

Presentations01C

Define the golden mean/golden ratio and calculate its value.	1
Prove that the square root of 2 is irrational.	2
Calculate the ratio of the side of a regular pentagon to the diagonal of the regular pentagon. Hint: look at my calculations in terms of n and m .	2.5
Prove that the square root of 3 is irrational.	3
Discuss and explain Zeno's Achilles and the Tortoise 'paradox.' Why is it a 'paradox'?	4
What were some of Zeno's other paradoxes? What was their purpose?	5
Argue that there are only five Platonic solids.	6
With compass and straight edge: bisect an angle.	7
With compass and straight edge: square the equilateral triangle.	8
With compass and straight edge: duplicate the square.	9
With compass and straight edge: construct a regular pentagon.	10