

Math 102
Final Exam
1:30-4:00 pm 4.26.10
25% of Course Grade

Calculus

1. Finding tangent line equations using power, product & quotient rules
2. Rectilinear motion problem
3. Maxima, minima, and curve sketching using first derivative test
4. Maxima, minima, and curve sketching using second derivative test
5. Compound interest calculation – n times per year or continuously
6. Properties of e^x from pp. 155-8

Gödel's Proof

1. Explanation of what Gödel proved with respect to axiomatic systems
2. Explanation of non-Euclidean geometries
3. Explanation of classical Greek constructions
4. Explanation of logical paradoxes
5. Small Axiomatic System – e.g. p. 15
6. Gödel's Numbering Scheme and the heart of his proof