

Math 1071Q · Fall 2015

Tentative Outline

Calculus: Applications and Technology (3rd edition), by E. Tomastik

Week	Section	Topic
1	A1	Exponents and roots
	A2	Polynomials and rational expressions
	A6	Lines
	1.1	Functions
2		Note: there will be no classes on Mon. Sep. 1st (Labor Day)
	1.2	Mathematical models
	1.3	Exponential models
3	1.4	Combinations of functions
	1.5	Logarithms
4	3.1	Limits
	3.2	Rates of change
	3.3	The derivative
5	4.1	Derivatives of powers, exponents and sums
	4.2	Derivatives of products and quotients
	4.3	The chain rule
6		Review / <u>Exam 1 SEPT 30</u>
7	4.4	Derivatives of exponential and logarithmic functions
	3.4	Local linearity
8	4.5	Elasticity of demand
	5.1	The first derivative
	5.2	The second derivative
9	5.3	Limits at infinity
	5.4	Additional curve sketching
10	5.5	Absolute extrema
	5.6	Optimisation and modeling
11		Review / <u>Exam 2 OCT 4</u>
12	6.1	Antiderivatives

	6.2	Substitution
13	6.3	Estimating distance travelled
	6.4	The definite integral
14		Thanksgiving break
15	6.5	The fundamental theorem of Calculus
	6.6	Area between two curves
		Review
		Final exam