

**MAC 2311 FINAL EXAM TOPICS**  
**ANTON 9<sup>th</sup> EDITION**

Exam 1	1. Limits ✓	1.1 - 1.3	5 points
	2. Continuous Functions	<del>Sec. 2.1 - 2.3</del>	5 points
Exam 2	3. Derivative using the definition	<del>Sec. 2.5, 2.6</del> 1.5 - 1.6	5 points
	4. Power, product, quotient rules, Trig. functions, Chain Rule	<del>Sec. 3.2</del> 2.2	10 points
	* 5. Related rates	2.3 - 2.6	20 points
	6. Differentials, increments, And approximations	<del>Sec. 3.3 - 3.6</del>	5 points
Exam 3	7. Implicit differentiation	<del>Sec. 3.7</del> 3.4	10 points
	8. Derivatives of exponential, Log and inverse trig functions.	<del>Sec. 3.8</del> 3.5	5 points
	9. L'Hopital's Rule, indeterminate forms	<del>Sec. 4.1</del> 3.1	10 points
Exam 4	10. Sketch a polynomial	0.4 3.2 3.3	10 points
	11. Sketch a rational function or other type (logarithmic, trig, fractional exponents, exponential)	<del>Sec. 1.5, 4.2, 4.3</del>	10 points
	12. Rolle's Theorem, Mean Value Theorem	<del>Sec. 4.4</del> 3.6	10 points
	13. Antiderivatives including substitution and integrals leading to inverse trig functions.	<del>Sec. 5.1 - 5.3</del>	10 points
	14. Parametric curves; derivatives	4.1 - 4.3	10 points
	* 15. Max-min word problem	<del>Sec. 5.1 - 5.3</del>	10 points
		4.1 - 4.3	5 points
	<del>Sec. 5.7</del> 4.8	5 points	
	5.2 - 5.3	10 points	
	<del>Sec. 6.2, 6.3</del> 10.1	10 points	
	<del>Sec. 1.8, part of 11.2</del>	5 points	
	<del>Sec. 5.5</del> 4.5	10 points	

This is a 130 point test. The final exam will count 25% of the grade in the course, unless You do better than your previous average, in which case it would count 50% of the grade. No test grades are dropped.