

MAC 2311 FINAL EXAM TOPICS
ANTON 8TH EDITION

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