

MAC 2311 FINAL EXAM TOPICS
ANTON 8TH EDITION

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| 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.