

Math 30
Review for Final

Make sure you can do the following types of problems

1. Limits and Continuity
2. Take the derivative using the definition.
3. Use the rules to take the derivative of complex functions.
4. Use the sketch of a function to sketch the derivative.
5. Implicit differentiation.
6. Find the tangent line to a curve through a point on or off the graph.
7. Related rates.
8. Exponential growth.
9. Logarithmic differentiation.
10. Differentiate inverse functions.
11. Differentiate Inverse trig functions.
12. Curve sketching using limits and derivatives.
13. Optimization.
14. Find antiderivatives.
15. Use antiderivatives to solve problems about motion.
16. Find the area under a curve.
17. Use the Fundamental Theorem of Calculus.