Math 1121 mastery checklist

		points		
	Limits & Continuity	1	2	3
1	Limits on graphs			
2	Limits algebraically			
3	Limits at infinity			
4	Continuity			
5	Piecewise functions			

The Derivative

6	Average rate of change		
7	Definition of the derivative		
8	Derivatives on graphs		
9	Derivatives in word problems		
10	Derivatives of polynomials (power rule)		
11	Product rule		
12	Quotient rule		
13	Chain rule		
14	Derivatives misc (rational functions)		
15	Exponential functions & their derivatives		
16	Logarithms basics		
17	Derivatives of logs		
18	Derivatives misc (exp & logs)		
19	Increasing & Decreasing (polynomials)		
20	Increasing & Decreasing (harder)		
21	Concavity		
22	Second derivative test		
23	Curve sketching for polynomials		
24	Absolute extrema		

The Antiderivative

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$\mid 25 \mid$ The indefinite inte	egral	
26 Initial value problem	ems	
27 Substitution		
28 Estimating areas v	with rectangles	
29 Trapezoid & Simp	son's rule	
30 Total Change in w	ord problems	
31 Fundamental The	orem of Calculus	

(Old #24 has been removed)

Rules for mastery

- Any checkmarks obtained from earlier in the semester receive 3 points for that item.
- Going forward, partial credit may be given for wrong answers. Every topic is now worth 3 points. (No retroactive partial credit)
- Points may be earned on our two remaining exams, which are March 26 (last day of class), and May 7 (final exam).
- Points may also be earned **by appointment** in the professor's office:
 - Students may attempt 2 questions per week until the final exam.
 - You may attempt ones which have not yet appeared on any regular exam.
 - Tell me ahead of time which questions you want to attempt, and I will create questions just for you.
 - No reviewing or help from the professor on that same day.
- Professor's general availability:
 - Monday 9-3
 - Tuesday 8-11
 - We dnesday 9-11 and 12-3
 - Thursday 9-3
 - Friday 9-11