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Math 115-064 Exam 2 Reflection

1.	How much tes		tion time did you spend on (Re)-reading the textbook)	each of the following activities?	
	b		(Re)-watching the provide		
	C		(Re)-reading your own notes Re-solving problems you'd solved already (quizzes?)		
	d				
	e		Solving worksheet proble	ms you didn't do in class	
	f		Solving problems from th	e textbook	
	g		Solving old exam problem	าร	
	h		Solving group practice pro	oblems	
	i		Explaining material to a p	eer	
	j		Other (Specify!:)	
	Passive: c. What per Alone: *Note on passion new problems Passive = you'r	ercentage	of your prep was done alon Together:%	e vs with one or more peers? esting" yourself, e.g., by solving eg, etc atching, or copying down	
3.	After looking over your graded exam, estimate the percentage of points you lost due to each of the following errors (make sure the % add up to 100). a% Not knowing how to approach problem				
	b	%	Mis-understanding calc c	oncept	
	C	%	Arithmetic/algebra errors		
	d	%	Misread instructions		
	e	%	Test anxiety/time manage	ement	
	f	%	Insufficient work shown		
	a.	%	Other (Specify!:)	

	topics will reappear!		
	for you). It might help to answer question 5 first, since the final is cumulative &		
	not plan to change anything, explain what about your current strategy works well		
	your study habits or try to sharpen particular skills? Please be specific . (If you do		
	will you do differently in preparing for the final exam? For instance, will you change		
4.	Based on the previous estimates & your approach to studying for this exam, what		

Also, what can I do to help?

5. Below are the learning objectives on Exam 2. For each one that doesn't have N/A, self-assess your skills using the "check" scale below. Then, tally your exam score for that LO. Finally, <u>if your score & self-assessment don't match</u>, explain!

Note: Remember that identifying *when* to use a skill is a part of mastering it. So if you had a problem that you had no idea how to approach (or kind of knew, but couldn't figure out how to finish), then you probably haven't fully mastered the skill.

Key for assessing mastery ("check" scale)

- ✓ + I am very confident I have mastered this skill.
- ✓ I think I have probably/mostly mastered this skill.
- ✓- I am still working on mastering this skill.
- ?? I have some major confusion/questions about this skill.

Derivative Concepts: 2.4–2.6

I. Interpret the meaning of the derivative of a function, or the inverse of a function, at a point in a specific context; in particular, write a complete, correct sentence about a small change in input and the corresponding approximate change in output, that could be understood by someone who knows no calculus. (2.4)

Problems: #9a Score: ___/2 Self-Assessment: Explain:

J. Given a function, determine information about its second derivative, such as where it is positive and negative; and given a graph or other information about the second derivative of a function, determine properties of the original function, such as where it is concave up and concave down. (2.5)

Problems: #6 Score: ___/4 Self-Assessment:

Explain:

	K. Given a graph or formula for a function, identify points at which the function is not differentiable. (2.6)				
	Problems: #1d Score:/2 Self-Assessment:				
	Explain:				
	L. Given a piecewise function, find the values of given parameters that make the function differentiable at a specified point. (2.6) Problems: #3d Score:/3 Self-Assessment:				
	Explain:				
	M. State and explain the meaning of the Mean Value Theorem; given a function, determine whether the hypotheses and/or conclusion of the Mean Value Theorem are satisfied on a given interval. (3.10)				
	Problems: #1d Score:/2 Self-Assessment: Explain:				
Deriv	vative Procedures: 3.1–3.6				
	ually MANY of the problems require procedures. Here I wrote out the main ones, but other problems (e.g., #7, #8, #9b) affects your self-assessment, mention it!				
A.	Know and use the rules to find the derivatives of power functions, exponential functions, and the sine, cosine, tangent, and natural log functions. (3.1, 3.2, 3.5, 3.6) Problems: #1b,c, #3c Score:/7 Self-Assessment: Explain:				
B.	Know and use the sum, difference, product, quotient, and chain rules to find the derivatives of combinations of functions. (3.3, 3.4) Problems: #1b,c, #3c Score:/7 Self-Assessment: Explain:				
C.	*Know and use the rules to find the derivatives of the arctan and arcsin functions, and the formula for the derivative of a general inverse function. (3.6) Problems: #1a, #9c Score:/5 Self-Assessment: Explain:				
D.	Given a function or formula, identify the correct rule(s) to use. (3.1-3.6) Problems: #la,b,c, #3c Score:/7 Self-Assessment: Explain:				

More Derivative Concepts: 3.7 & 3.9

A.	Problems: #8b Score:/4 Explain:	Self-Assessment:
B.	derivative in general and at specific	mplicit differentiation to find a formula for the c points, find an equation for the tangent line at a the graph of the implicit function has horizontal Self-Assessment:
C.	to approximate the value of the fu	ximation of a function at a given point, and use it nction at a nearby point. (3.9) Self-Assessment:
D.	function is an under- or over-estim	sible) whether the linear approximation of a nate. (3.9) Self-Assessment:

Derivative Applications: 4.1–4.3

A.	Given a formula for a function, find its critical points, & use the 1st and 2nd Derivative Tests to classify these as local extrema, including all needed justification. (4.1)				
	Problems: #7a,b Explain:	Score: /6	Self-Assessment:		
B.	Given a formula for justification. (4.1) Problems: #7c Explain:		sinflection points, including Self-Assessment:	g all needed	
C.	behavior to find all g	global extrema, in	e Extreme Value Theorem a cluding all needed justifica Self-Assessment:	_	
D.	·	he locations of cri 1, 4.2)	y information) or a graph of tical points, local and globa Self-Assessment:		
E.	•	propriate domain;	ual optimization problem, in and solve for the global op 8 Self-Assessment:	timum, including	
F.	Set up functions mo for rates of interest. Problems: #9b,c	=	Self-Assessment:		
	Explain:				