MAT251: General Calculus II The Course Graded Exam - Unit 5 Review Test Submission: Graded Exam - Unit 5

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Course	MAT251: General Calculus II	
Test	Graded Exam - Unit 5	
Status	Completed	
Score	135 out of 150 points	
Time Elaps	sed 32 minutes out of 1 hour.	
Instructions	5.	

Question 1	7.5 out of 7.5	
What is the difference	e between an indefinite integral and a definite integral?	points
Selected Answer:	An indefinite integral has many possible functions as solutions, while a integral represents exactly one function.	definite
Question 2		7.5 out of 7.5
Which of the followin	g is an antiderivative of $f(x) = (\cos x)e^{\sin x}$?	points
Selected Answer:		
Question 3	7.5 out of 7.5 points	
Which of the followin	ig is a solution of the differential equation $\frac{dy}{dx} = 6x$?	
Selected Answer:		
Question 4		7.5 out of 7.5 points
Decide whether each $y = x a^{3x}$	n of the following satisfies the differential equation $\frac{d^2y}{dx^2} - 9y = 0$.	,
y = xe Selected Answer:		
Question 5		7.5 out of 7.5
Decide which trigono	prmetric substitution on the right could be used to evaluate each of the	points

integrals on the left.

Question Selected Match







Question 8	7.5 out of 7.5
Decide whether each of the following integrals are improper. $\int_{0}^{\infty} \sqrt{x} dx$	points
Selected Answer:	
Question 9	7.5 out of 7.5 points
Which of the following is true for any constant $a > 0$?	Prove State Law
Selected Answer:	
Question 10	7.5 out of 7.5 points
A function can have more than one antiderivative.	pointo
Selected Answer:	
Question 11	0 out of 7.5 points
If $f(x)$ is an even function, decide whether each of the following are true or false. $\int_{-a}^{0} f(x)dx = -\int_{0}^{a} f(x)dx$	
Selected Answer:	
Question 12	7.5 out of 7.5 points



Decide whether each of the following are properties of the definite integral.

points

 $\int_{b}^{a} f(x) dx = \int_{a}^{b} f(x) dx$ Selected Answer: