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5.5 Regla de la Sustitución (Homework)





## DECEMBER 21 11:59 PM CST



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## **Assignment Submission & Scoring**

## **Assignment Submission**

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

## **Assignment Scoring**

Your last submission is used for your score.

1/1 points Previous Answers SCalcET8 5.5.001.

My Notes

**Ask Your Teacher** 

Evaluate the integral by making the given substitution. (Use C for the constant of integration.)

$$\int \cos(6x) \, dx, \quad u = 6x$$

$$\sin(6x)6 + C$$

2. 1/1 points Previous Answers SCalcET8 5.5.003.MI.



**Ask Your Teacher** 

Evaluate the integral by making the given substitution. (Use C for the constant of integration.)

$$\int x^2 \sqrt{x^3 + 13} \ dx, \quad u = x^3 + 13$$





Need Help?



Master It

Talk to a Tutor

3. 1/1 points Previous Answers SCalcET8 5.5.004.



**Ask Your Teacher** 

Evaluate the integral by making the given substitution. (Use C for the constant of integration.)

$$\int \sin^3(\theta) \cos(\theta) d\theta, \quad u = \sin(\theta)$$





4. 1/1 points Previous Answers SCalcET8 5.5.005.

My Notes

**Ask Your Teacher** 

Evaluate the integral by making the given substitution. (Use C for the constant of integration. Remember to use absolute values where appropriate.)

$$\int \frac{x^3}{x^4 - 2} \, dx, \quad u = x^4 - 2$$



**4** 

5. 1/1 points Previous Answers SCalcET8 5.5.009.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int (4-4x)^7 dx$$

-(4-4x)832+C

6. 1/1 points Previous Answers SCalcET8 5.5.010.

- My Notes
- **Ask Your Teacher**

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \sin(t)\sqrt{1+\cos(t)} dt$$

$$-2(1+\cos(t))(32)3+C$$

7. 1/1 points Previous Answers SCalcET8 5.5.017.

- My Notes
- **Ask Your Teacher**

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \frac{e^u}{(1 - e^u)^2} du$$

$$11 - eu + C$$

8. 1/0 points Previous Answers SCalcET8 5.5.019.

- My Notes
- **Ask Your Teacher**

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \frac{a + bx^7}{\sqrt{8ax + bx^8}} dx$$

$$\sqrt{8ax + bx + bx}$$





9. 1/1 points Previous Answers SCalcET8 5.5.021.MI.



**Ask Your Teacher** 

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \frac{(\ln(x))^{16}}{x} dx$$

$$\ln 17(x) 17 + C$$



10. 1/1 points Previous Answers

SCalcET8 5.5.023.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Use C for the constant of integration.)

$$\int \sec^2(\theta) \tan^3(\theta) d\theta$$

$$tan4(\theta)4+C$$

1/1 points Previous Answers SCalcET8 5.5.025.MI.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int e^x \sqrt{7 + e^x} dx$$

$$23(7 + ex)(32) + C$$

 $\checkmark$ 

11.

Need Help?

Watch It

Master It

Talk to a Tutor

12. 1/0 points Previous Answers SCalcET8 5.5.026.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Remember to use absolute values where appropriate. Use C for the constant of integration.)

$$\int \frac{dx}{tx + g} \quad (t \neq 0)$$

$$1t \ln|tx + g| + C$$

13. 1/0 points Previous Answers SCalcET8 5.5.034.MI.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \frac{\cos(\pi/x^{11})}{x^{12}} dx$$

$$-\sin(\pi x 11) 11 \pi + C$$

Need Help? Master It Talk to a Tutor

14.

1/1 points Previous Answers

SCalcET8 5.5.035.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral.

$$\int \sqrt[30]{\cot(x)} \csc^2(x) dx$$

$$\frac{30}{31} - (\csc(x))^{31/30} + C$$

$$^{30}_{31}$$
 -  $\cot^2(x) + C$ 

$$\frac{30}{31}$$
 csc<sup>2</sup>(x) + C

$$\circ$$
 -  $(\csc(x))^{30/31} + C$ 

15. **1/** 

1/0 points Previous Answers

SCalcET8 5.5.039.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \frac{\sin(2x)}{28 + \cos^2(x)} \, dx$$

-In|57+cos(2x)|+C



17.

16. 1/1 points Previous Answers SCalcET8 5.5.041.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Remember to use absolute values where appropriate. Use C for the constant of integration.)

$$\int \cot(18x) \ dx$$

$$118\ln|\sin(18x)| + C$$

1/1 points Previous Answers SCalcET8 5.5.044.MI.

My Notes

**Ask Your Teacher** 

Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int \frac{x^5}{1+x^{12}} dx$$

$$16tan-1(x6)+C$$

18.

2/2 points Previous Answers SCalcET8 5.5.050.

My Notes

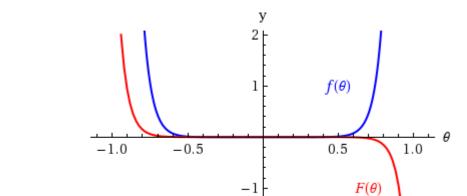
**Ask Your Teacher** 

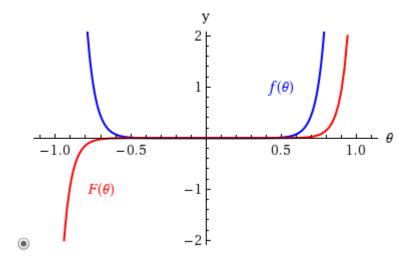
Evaluate the indefinite integral. (Use C for the constant of integration.)

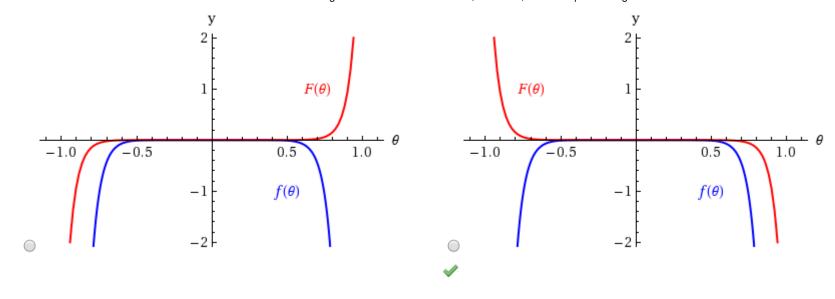
$$\int \tan^8(\theta) \sec^2(\theta) d\theta$$

 $tan9(\theta)9+C$ 

Illustrate and check that your answer is reasonable by graphing both the function and its antiderivative (take C = 0).







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**Extension Request** 

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