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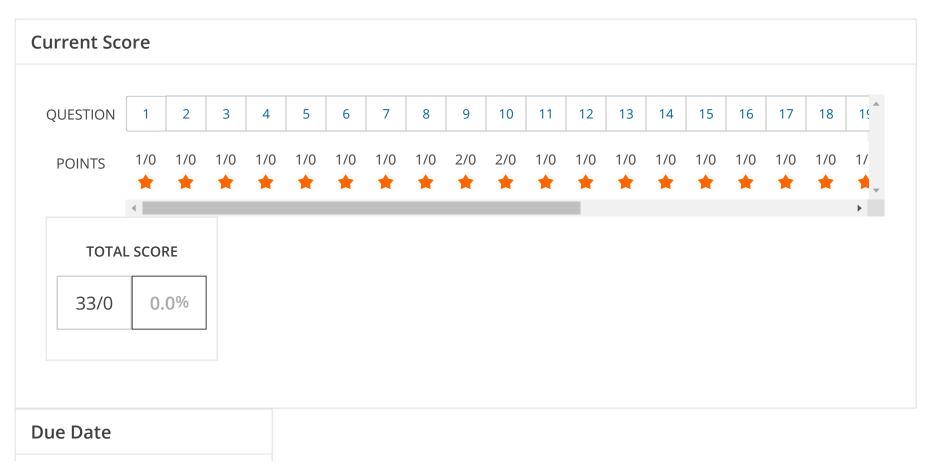
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Capítulo 7 Técnicas de Integracion (Homework)

Christiaan Ketelaar

Universidad Francisco Marroquin



INSTRUCTOR

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.

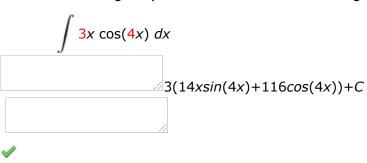
Assignment Scoring

Your last submission is used for your score.

1. 1/0 points Previous Answers SCalcET8 7.1.003.MI.

My Notes

Ask Your Teacher



2. 1/0 points Previous Answers SCalcET8 7.1.006.

My Notes

Ask Your Teacher

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

$$\int (x-2)\sin(\pi x)\ dx$$

 $\sqrt{-x}$ $\pi \cos(\pi x) + 1$ $\pi 2\sin(\pi x) + 2\pi \cos(\pi x) + C$

 \checkmark

3. 1/0 points Previous Answers SCalcET8 7.1.009.

My Notes

Ask Your Teacher

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

$$\int \cos^{-1}(x) \ dx$$

$$\cos^{-1}(x) \cdot x - \sqrt{1 - x^2 + C}$$



Need Help?

Master It

Talk to a Tutor

4. 1/0 points Previous Answers SCalcET8 7.1.010.

- My Notes
- **Ask Your Teacher**

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

$$\int \ln(\sqrt{x}) dx$$

$$\ln(\sqrt{x}) \cdot x - 12x + C$$

5. 1/0 points Previous Answers SCalcET8 7.1.015.

- My Notes
- **Ask Your Teacher**

$$\int (\ln(x))^2 dx$$

$$\ln 2(x)x - 2(\ln(x)x - x) + C$$

6. 1/0 points Previous Answers SCalcET8 7.1.018.



Ask Your Teacher

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

$$\int e^{-\theta} \cos(6\theta) d\theta$$

$$637e - \theta(\sin(6\theta) - 16\cos(6\theta)) + C$$

7. 1/0 points Previous Answers SCalcET8 7.1.019.

My Notes

Ask Your Teacher

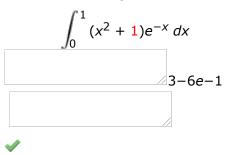
$$\int 9z^3e^z dz$$

$$9z3ez-27(z2ez-2(zez-ez))+C$$

8. 1/0 points Previous Answers SCalcET8 7.1.024.

My Notes Ask Your Teacher

Evaluate the integral.



Need Help? Talk to a Tutor

9. 2/0 points Previous Answers SCalcET8 7.1.045.

My Notes

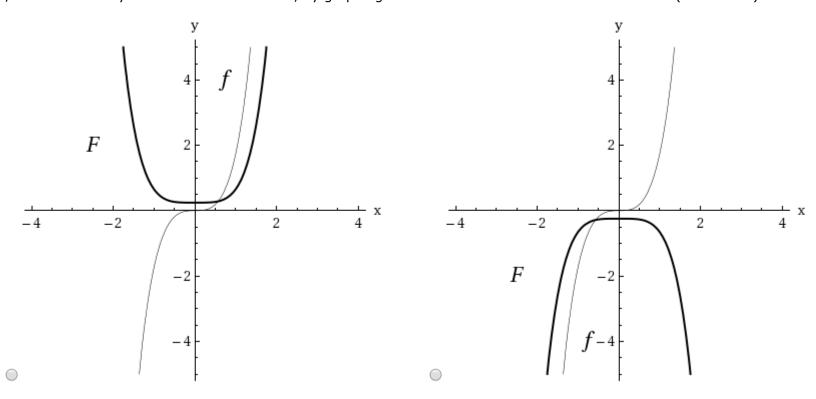
Ask Your Teacher

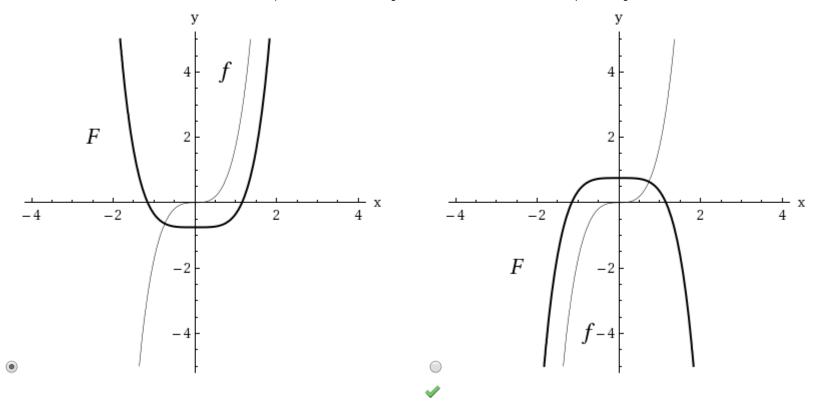
Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int x^3 \sqrt{2 + x^2} \, dx$$

$$(x^2+2)(3^2)(3x^2-4)15+C$$

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





2/0 points Previous Answers SCalcET8 7.1.046. 10.

My Notes

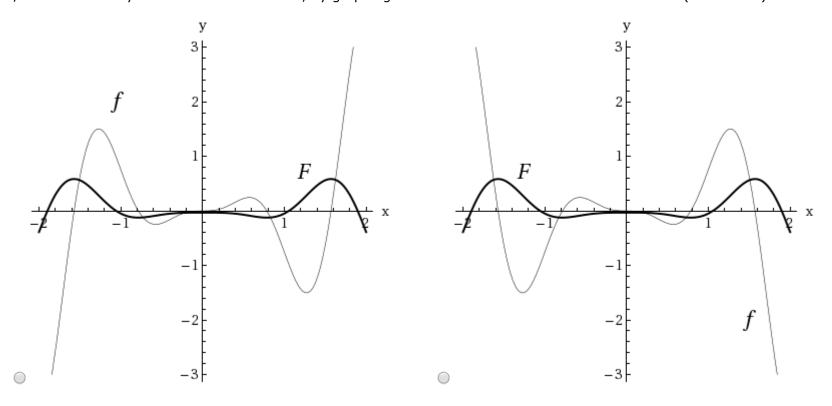
Ask Your Teacher

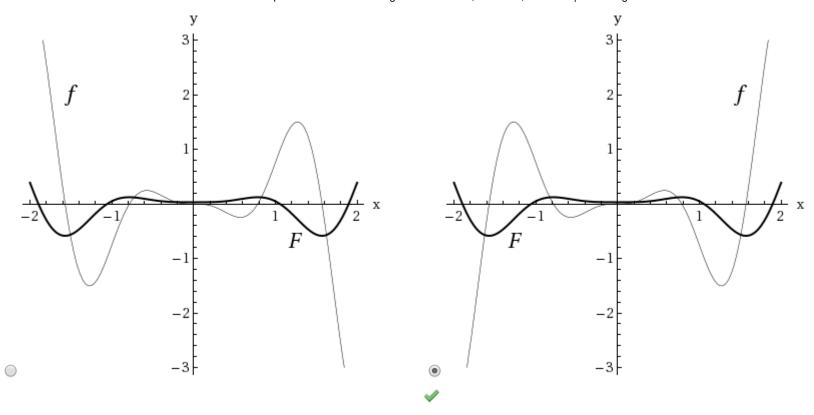
Evaluate the indefinite integral. (Use *C* for the constant of integration.)

$$\int x^{2} \sin(4x) dx$$

$$-x2\cos(4x)\cdot 14 + 12(x4\sin(4x) + 116\cos(4x)) + C$$

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





1/0 points Previous Answers SCalcET8 7.2.001.MI. 11.

My Notes **Ask Your Teacher**

$$\int 2 \sin^2(x) \cos^3(x) dx$$

$$23\sin^3(x) - 25\sin^5(x) + C$$

12. 1/0 points Previous Answers SCalcET8 7.2.010.



Ask Your Teacher

Evaluate the integral.

$$\int_0^{\pi} 5 \sin^2(t) \cos^4(t) dt$$

$$5 \pi 16$$

1/0 points Previous Answers SCalcET8 7.2.016.

My Notes

Ask Your Teacher

$$\int \tan^2(x) \cos^3(x) dx$$

$$13\sin^3(x) + C$$

14. 1/0 points Previous Answers SCalcET8 7.2.021.



Ask Your Teacher

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

$$\int 4 \tan(x) \sec^3(x) dx$$

$$43 \sec^3(x) + C$$

1/0 points Previous Answers SCalcET8 7.2.024.

My Notes

Ask Your Teacher

$$\int 7 \left(\tan^2(x) + \tan^4(x) \right) dx$$

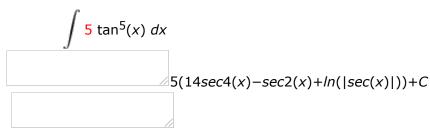
$$73 \tan 3(x) + C$$

16. 1/0 points Previous Answers SCalcET8 7.2.031.



Ask Your Teacher

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





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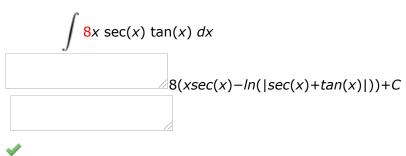
Talk to a Tutor

17. 1/0 points Previous Answers SCalcET8 7.2.033.



Ask Your Teacher

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



1/0 points Previous Answers SCalcET8 7.2.034. 18.

My Notes

Ask Your Teacher

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

$$\int \frac{9 \sin(\varphi)}{\cos^3(\varphi)} d\varphi$$

$$92tan2(\varphi) + C$$

1/0 points Previous Answers SCalcET8 7.2.037. My Notes

Ask Your Teacher

$$\int_{\pi/4}^{\pi/2} \cot^5(\phi) \csc^3(\phi) d\phi$$

$$22\sqrt{2}-8105$$

2/0 points Previous Answers SCalcET8 7.2.052.

My Notes

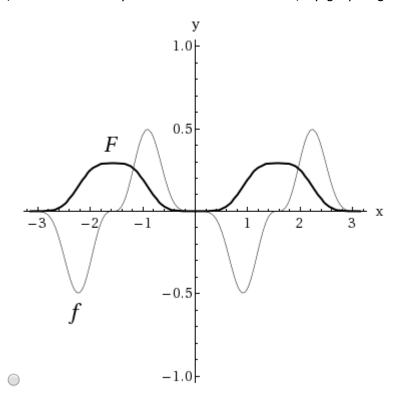
Ask Your Teacher

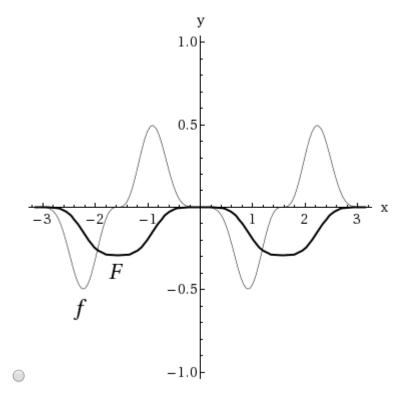
Evaluate the indefinite integral. (Use *C* for the constant of integration.)

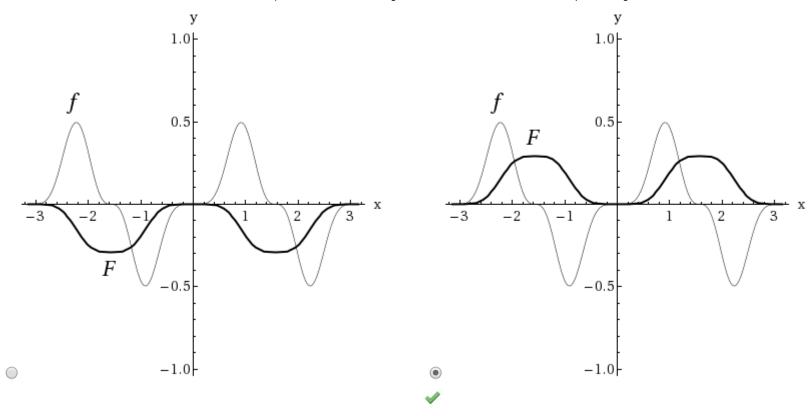
$$\int 7 \sin^5(x) \cos^3(x) dx$$

$$7(16\sin^6(x) - 18\sin^8(x)) + C$$

Illustrate, and check that your answer is reasonable, by graphing both the integrand f and its antiderivative F (taking C = 0).







21. 1/0 points Previous Answers SCalcET8 7.3.004.

My Notes

Ask Your Teacher

$$\int \frac{x^2}{\sqrt{25 - x^2}} dx$$

$$-252(arccos(x5) + x\sqrt{25 - x225}) + C$$

1/0 points Previous Answers SCalcET8 7.3.007. 22.

- My Notes
- **Ask Your Teacher**

Evaluate the integral.

$$4\int_{0}^{a} \frac{dx}{(a^{2} + x^{2})^{3/2}}, \quad a > 0$$

$$2\sqrt{2}a2$$

1/0 points Previous Answers SCalcET8 7.3.012.

- My Notes
- **Ask Your Teacher**

$$\int_0^9 \frac{dt}{\sqrt{81+t^2}}$$

$$\ln(|\sqrt{2}+1|)$$

24. 1/0 points Previous Answers SCalcET8 7.3.013.



Ask Your Teacher

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

$$\int \frac{\sqrt{x^2 - 25}}{x^3} \, dx$$

 $110(arccos(5x)-5\sqrt{x2}-25x2)+C$



Need Help?

Watch It

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25. 1/0 points Previous Answers SCalcET8 7.3.015.

My Notes

Ask Your Teacher

$$\int_0^a 7x^2 \sqrt{a^2 - x^2} dx$$

$$716\pi a4$$

1/0 points Previous Answers SCalcET8 7.3.017. 26.

My Notes

Ask Your Teacher

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

$$\int \frac{x}{\sqrt{x^2 - 5}} \, dx$$

 $\sqrt{x^2-5}+C$



27.

1/0 points Previous Answers

SCalcET8 7.3.019.

My Notes

Ask Your Teacher

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

$$\int \frac{\sqrt{64 + x^2}}{x} dx$$

 $-4\ln|18\sqrt{x^2+64+1}|+4\ln|18\sqrt{x^2+64-1}|+\sqrt{64+x^2+C}|$



Need Help?

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28. 1/0 points Previous Answers SCalcET8 7.3.029.



Ask Your Teacher

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

$$\int 5x\sqrt{1-x^4}\ dx$$

 $\sqrt{54arcsin(x2)+58sin(2arcsin(x2))+C}$





29. 1/0 points Previous Answers SCalcET8 7.3.501.XP.



Ask Your Teacher

$$2\int_0^1 x^3 \sqrt{1-x^2} \ dx$$





30. 1/0 points Previous Answers SCalcET8 7.3.508.XP. ☐ My Notes Ask Your Teacher

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

$$\int \frac{dt}{\sqrt{t^2 - 12t + 45}}$$

$$\ln(|13(t - 6 + \sqrt{t2} - 12t + 45)|) + C$$

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