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← MC 006, section B, Fall 2019

7.4 Fracciones Parciales (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**

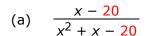
Your last submission is used for your score.

1. 2/0 points Previous Answers SCalc8 7.4.002.

My Notes

**Ask Your Teacher** 

Write out the form of the partial fraction decomposition of the function (as in this <u>example</u>). Do not determine the numerical values of the coefficients.





(b)  $\frac{x^2}{x^2 + x + 20}$ 

1+-x-20x2+x+20



Need Help?

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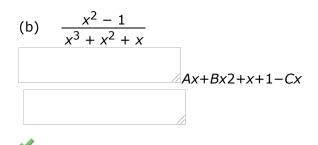
2. 2/0 points Previous Answers SCalc8 7.4.004.

My Notes Ask Your Teacher

Write out the form of the partial fraction decomposition of the function (as in this <u>example</u>). Do not determine the numerical values of the coefficients.



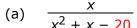




2/0 points Previous Answers SCalc8 7.4.501.XP. 3.

My Notes Ask Your Teacher

Write out the form of the partial fraction decomposition of the function (See Example). Do not determine the numerical values of the coefficients.







(b) 
$$\frac{x^2}{x^2 + x + 2}$$





4. 4/0 points Previous Answers SCalc8 7.4.502.XP.

My Notes

**Ask Your Teacher** 

Write out the form of the partial fraction decomposition of the function (<u>See Example</u>). Do not determine the numerical values of the coefficients.

(a)  $\frac{x^4 + 4}{x^5 + 6x^3}$ 

Ax+Bx2+Cx3+Dx+Ex2+6



(b)  $\frac{2}{(x^2-1)^2}$ 

A(x+1)+B(x+1)2+C(x-1)+D(x-1)2



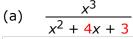


5. 2/0 points Previous Answers SCalc8 7.4.516.XP.

My Notes

**Ask Your Teacher** 

Write out the form of the partial fraction decomposition of the function (<u>see example</u>). Do not determine the numerical values of the coefficients.







(b) 
$$\frac{9x+1}{(x+1)^3(x^2+4)^2}$$

Ax+1+B(x+1)2+C(x+1)3+Dx+E(x2+4)+Fx+G(x2+4)2





6. 2/0 points Previous Answers SCalc8 7.4.009.

My Notes

**Ask Your Teacher** 

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

$$\int \frac{65x + 7}{(8x + 1)(x - 1)} \, dx$$

18ln(|8x+1|)+8ln(|x-1|)+C



7. 2/0 points Previous Answers SCalc8 7.4.011.



**Ask Your Teacher** 

Evaluate the integral.

$$\int_{0}^{1} \frac{30}{6x^{2} + 7x + 1} dx$$

$$-6(\ln(25) + \ln(245) - \ln(145) - \ln(125))$$

8. 1/0 points Previous Answers SCalc8 7.4.014.

My Notes

**Ask Your Teacher** 

Evaluate the integral. (Assume  $a \neq b$ . Remember to use absolute values where appropriate. Use C for the constant of integration.)

$$\int \frac{3}{(x+a)(x+b)} dx$$

$$3a-bln(|x+b|)-3a-bln(|x+a|)+C$$

•

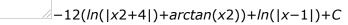
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9. 3/0 points Previous Answers SCalc8 7.4.023.MI.

- My Notes
- **Ask Your Teacher**

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

$$\int \frac{5}{(x-1)(x^2+4)} \, dx$$







10. 2/0 points Previous Answers SCalc8 7.4.026.



**Ask Your Teacher** 

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

$$\int \frac{4x^2 + 5x + 4}{(x^2 + 1)^2} \, dx$$



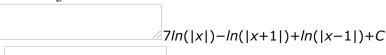


11. 1/0 points Previous Answers SCalc8 7.4.505.XP.

- My Notes
- **Ask Your Teacher**

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

$$\int \frac{7x^2 + 2x - 7}{x^3 - x} \, dx$$





12. 3/0 points Previous Answers SCalc8 7.4.506.XP.

- My Notes
- **Ask Your Teacher**

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

$$\int \frac{x^2 + 1}{(x - 7)(x - 6)^2} \, dx$$

-49ln(|x-6|)+37x-6+50ln(|x-7|)+C



1/0 points Previous Answers SCalc8 7.4.509.XP. 13.

- My Notes
- **Ask Your Teacher**

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

$$\int \frac{ds}{s^2(s-1)^2}$$

 $2(\ln(|s|)-\ln(|s-1|))-1s-1s-1+C$ 



2/0 points Previous Answers SCalc8 7.4.508.XP. 14.

- My Notes
- **Ask Your Teacher**

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

$$\int \frac{x^3 + 4}{x^2 + 4} dx$$

2(x24-ln(|x24+1|)+arctan(x2))+C



16.

2/0 points Previous Answers SCalc8 7.4.513.XP. 15.



**Ask Your Teacher** 

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

$$\int \frac{16dx}{x(x^2+4)^2}$$

$$2x2+4-12ln(|x2+4|)+ln(|x|)+C$$

2/0 points Previous Answers SCalc8 7.4.520.XP.

My Notes

**Ask Your Teacher** 

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

$$\int \frac{5}{(t+4)(t-3)} dt$$
57( $ln(|t-3|)-ln(|t+4|)$ )+C

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