CENGAGE | WEBASSIGN

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7.4 Fracciones Parciales (Homework)

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Current Score

QUESTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
POINTS	2/0	2/0	2/0	4/0	2/0	2/0	2/0	1/0	3/0	2/0	1/0	3/0	1/0	2/0	2/0	2/0

TOTAL SCORE

33/0	0.0%

Due Date

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.

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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 example). Do not determine the numerical values of the coefficients.

(a) $\dfrac{x - 20}{x^2 + x - 20}$

$Ax+5+Bx-4$

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

$1+-x-20x2+x+20$

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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 example). Do not determine the numerical values of the coefficients.

(a) $\dfrac{x^4 - 2x^3 + x^2 + 3x - 1}{x^2 - 2x + 1}$

x2+Ax−1+B(x−1)2

(b) $\dfrac{x^2 - 1}{x^3 + x^2 + x}$

Ax+Bx2+x+1−Cx

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

(a) $\dfrac{x}{x^2 + x - 20}$

$A(x+5)+B(x-4)$

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

$1+-x-2x2+x+2$

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 (See Example). Do not determine the numerical values of the coefficients.

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

$Ax+Bx2+Cx3+Dx+Ex2+6$

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

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

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 (see example). Do not determine the numerical values of the coefficients.

(a) $\dfrac{x^3}{x^2 + 4x + 3}$

$(x-4)+A(x+3)+B(x+1)$

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

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

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. My Notes 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.)

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

$-12(ln(|x2+4|)+arctan(x2))+ln(|x-1|)+C$

10. 2/0 points Previous Answers SCalc8 7.4.026. My Notes Ask Your Teacher

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

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

$-52(x2+1)+4arctan(x)+C$

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.)

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

$7ln(|x|)-ln(|x+1|)+ln(|x-1|)+C$

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.)

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

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

13. 1/0 points Previous Answers SCalc8 7.4.509.XP. My Notes Ask Your Teacher

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

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

2(ln(|s|)−ln(|s−1|))−1s−1s−1+C

14. 2/0 points Previous Answers SCalc8 7.4.508.XP. My Notes Ask Your Teacher

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

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

2(x24−ln(|x24+1|)+arctan(x2))+C

15. 2/0 points Previous Answers SCalc8 7.4.513.XP. My Notes Ask Your Teacher

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

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

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

16. 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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