← MAT2601_ONL8FA_ONL8F_21 - Calculus, Fall 2021

Week 7 Quiz MAT2601 (Homework)

INSTRUCTOR
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SOUTH COLLEGE

Current Score

QUESTION	1	2	3	4	5	6	7	8	9	10
POINTS	–/10	–/10	–/10	–/10	–/10	–/10	–/10	–/10	–/10	–/10

TOTAL SCORE

–/100	0.0%

Due Date

TUE, NOV 16, 2021
11:59 PM EST

Request Extension

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by questions. You are required to use a new randomization after every 3 question submissions.

Assignment Scoring

Your best submission for each question part is used for your score.

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1. **[–/10 Points]** DETAILS **HARMATHAP12 12.1.003.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

If $f'(x) = x^3$, what is $f(x)$? (Use C for the constant of integration.)

$f(x) =$

Need Help? Read It

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2. **[–/10 Points]** DETAILS **HARMATHAP12 12.1.013.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

Evaluate the integral. Check your answer by differentiating. (Use C for the constant of integration.)

$$\int (x^4 - 9x^2 + 4)\, dx$$

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3. **[–/10 Points]** DETAILS **HARMATHAP12 12.1.027.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

Evaluate the integral. Check your answer by differentiating. (Use C for the constant of integration.)

$$\int \left(x^7 - \frac{1}{x^3} + \frac{4}{\sqrt[3]{x}} \right) dx$$

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4. **[–/10 Points]** DETAILS **HARMATHAP12 12.2.003.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

Find the differential of the function.

$$p = 5q - 6q^{3/2}$$

$dp =$

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5. **[–/10 Points]** DETAILS **HARMATHAP12 12.2.013.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

Evaluate the integral. Check your results by differentiation. (Use C for the constant of integration.)

$$\int 6x^5(9x^6 + 11)^5 \, dx$$

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6. **[–/10 Points]** DETAILS **HARMATHAP12 12.2.026.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

Evaluate the integral. Check your results by differentiation. (Use C for the constant of integration.)

$$\int (x^2 - 3)^2(2x^2) \, dx$$

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7. **[-/10 Points]** DETAILS **HARMATHAP12 12.2.023.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

Evaluate the integral. Check your result by differentiation. (Use C for the constant of integration.)

$$\int 8x^8 \sqrt{x^9 + 9}\, dx$$

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8. **[-/10 Points]** DETAILS **HARMATHAP12 12.3.004.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

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

$$\int e^{3x}\, dx$$

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9. **[-/10 Points]** DETAILS **HARMATHAP12 12.3.013.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

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

$$\int \frac{x^6}{e^8 - 4x^7}\, dx$$

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10. **[-/10 Points]** DETAILS **HARMATHAP12 12.3.019.** 0/15 Submissions Used

MY NOTES ASK YOUR TEACHER

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

$$\int \frac{dz}{5z + 3}$$

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