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Congratulations! You passed!

QUIZ • 20 MIN

TO PASS 80% or higher

Keep Learning

GRADE 100%

Unleashing the toolbox

Review Learning Objectives

Unleashing the toolbox

LATEST SUBMISSION GRADE

100%

Submit your assignment

1. In this assessment, you will be tested on all of the different topics you have in covered this module. Good luck!

DUE DATE Mar 15, 8:59 AM EET ATTEMPTS 3 every 8 hours

Try again 1/1 point

Receive grade What is the derivative of the function $f(x)=x^{3/2}+\pi x^2+\sqrt{7}$ evaluated at the point x= **Errade**

View Feedback

TO PASS 80% or higher $f'(2)=rac{3}{2}+4\pi$

100%

We keep your highest score

 $\bigcirc \quad f'(2) = \tfrac{3}{2} + 4\pi + \sqrt{7}$

3 P

 $\int f'(2)=rac{3\sqrt{2}}{2}+4\pi+\sqrt{7}$

Correct

Well done!

2. What is the derivative of the function $f(x) = x^3 cos(x)e^x$?

1/1 point

 $f'(x)=-e^xx^3sin(x)+e^xx^3cos(x)+e^xx^2cos(x)$

 $f'(x) = -e^x x^3 sin(x) + e^x x^3 cos(x) + 3e^x x^2 cos(x)$

 $\int f'(x)=-x^3sin(x)+e^xx^3+3e^xx^2cos(x)$

 $\int f'(x) = -3x^2 sin(x)e^x$

✓ Correct

Well done!

3. What is the derivative of the function $f(x)=e^{[(x+1)^2]}$?

1/1 point

 $\int f'(x) = (x+1)e^{[(x+1)^2]}$

 $igcup f'(x) = e^{2(x+1)}$

 $igcap f'(x) = e^{[(x+1)^2]}$

✓ Correct

Well done!

4. What is the derivative of the function $f(x) = x^2 cos(x^3)$?

1 / 1 point

 $\int f'(x)=2xsin(x^3)-3x^4sin(x^3)$

 $\bigcirc \quad f'(x) = 2x cos(x^3) - 3x^4 cos(x^3)$

 $\int f'(x)=2xsin(x^3)-3x^4cos(x^3)$

✓ Correct Well done!

5. What is the derivative of the function $f(x) = \sin(x)e^{\cos(x)}$ at the point $x = \pi$?

1 / 1 point

 $\int f'(\pi) = rac{1}{e}$

 $\int f'(\pi) = -rac{1}{e^2}$

 $\int f'(\pi)=rac{1}{e^2}$

✓ Correct

Well done!