Unleashing the toolbox

5/5 points (100.00%)

Quiz, 5 questions

✓ Congratulations! You passed!

Next Item



1/1 points

1.

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

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

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

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

Correct

Well done!

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

Unleashing the toolbox

5/5 points (100.00%)

Quiz, 5 questions

2.

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

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

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

Correct

Well done!

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

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



1/1 points

3.

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

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

Correct

Well done!

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

$$\bigcirc \quad f'(x) = e^{2(x+1)}$$



5/5 points (100.00%)

Quiz, 5 questions

4.

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

Correct

Well done!

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



1/1 points

5.

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

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

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

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

Correct

Well done!

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

Unleashing the toolbox 5/5 points (100.00%)

Quiz, 5 questigns 🕠



4 of 4 7/8/18, 8:50 PM