# Unleashing the toolbox

Quiz, 5 questions

5/5 points (100%)



# **Congratulations! You passed!**

Next Item



1/1 point

1

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

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

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



### Correct

Well done!

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



1/1

point

2

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

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

#### Correct

Well done!

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

# Unleashing the to allow $x + e^x x^3 + 3e^x x^2 cos(x)$

Quiz, 5 questions

5/5 points (100%)



1/1 point

3

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

Correct

Well done!

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

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



1/1 point

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 point

5.

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

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

5/5 points (100%)

Quiz, 5 question  $f'(\pi) = -rac{1}{e^2}$ 

 $\int f'(\pi)$ 

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

Correct

Well done!