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

1/1 punto

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

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

Well done!

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

1/1 punto

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

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

Well done!

1/1 punto

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

Well done!

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

1/1 punto

- $\int f'(x) = 2x\sin(x^3) 3x^4\cos(x^3)$
- $\int f'(x) = 2x\sin(x^3) 3x^4\sin(x^3)$
- $\int f'(x) = 2x\cos(x^3) 3x^4\cos(x^3)$
- - ✓ Correcto

Well done!

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

1/1 punto

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





