#Assignment1 Unleashing the toolbox

Saturday, May 14, 2022

9:36 AM

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

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

2. What is the derivative of the function
$$f(x) = x^3 cos(x)e^x$$
?
$$f'(y) = x^3 Cos(x)e^x = x^3 S'(x) (x) e^x + 3 X^7 (-s(x))e^x + 3 X^7 (-s(x))e^$$

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

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

$$f(X)_{i} = X_{5}X - 3X_{5}2iU(X_{3}) + 5X(cer(X_{2}))$$

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