

Derivatives of exponential functions

Consider the function $f(x) = e^x$ where e is the irrational number approximately equal to 2.72. Complete the following table to find the formula for $f'(x)$. Round your answers to two decimal places.

Value of x	$f(x) = e^x$	Slope of tangent line to $f(x)$ at the given value of x
-2		
0		
1		
5		

What would you say is the formula for $f'(x)$?

Consider the function $f(x) = e^{2x}$ where e is the irrational number approximately equal to 2.72. Complete the following table to find the equation for $f'(x)$. Round your answers to two decimal places.

Value of x	$f(x) = e^{2x}$	Slope of tangent line to $f(x)$ at the given value of x
-2		
0		
1		
5		

What would you say is the formula for $f'(x)$?