json -> latex convert test

kora

Questions

l.	Given the function $f(x) = 3x^4 - 5x^3 + 7$, find $f'(x)$.
•	If the rate of change of a quantity is given by $g(x) = 4e^{2x}$, find the function $G(x)$.
	Evaluate: $\frac{d}{dx}(x^3 - 4x^{-1})$
	Find the derivative of $h(x) = (2x - 1)^5$.
	If $f(z) = z^3 + 2z^2 + iz$, where $i = \sqrt{-1}$, find the real part of $f(1+i)$.

6.	Find $\frac{d}{dx}(e^{2x}) + \frac{d}{dx}(\tan(x))$	[5]
7.	Evaluate $\text{Re}(z) + \text{Im}(z)$, where $z = 3 + i$.	[5]
8.	Find the integral of $p(x) = x^2 e^{-x}$.	[5]
9.	If $y = \frac{\sin(2x)}{\cos(3x)}$, find the derivative using quotient rule.	[5]
10.	Given $q(z) = z + i$, find the modulus of $q(i)$.	[5]