json -> latex convert test

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Questions

$\int_{1}^{3} (2x-1)dx.$	[
function $g(x) = \sin(3x)$, find the second derivative at $x = \frac{\pi}{6}$.	
area under the curve of $y = x^2 - 4$ from $x = -1$ to $x = 3$.	
	$\int_1^3 (2x-1)dx.$ function $g(x)=\sin(3x)$, find the second derivative at $x=\frac{\pi}{6}$. area under the curve of $y=x^2-4$ from $x=-1$ to $x=3$.

The function $h(x) = e^{2x} + x^2$ is given. Find the derivative of $h(x)$ at $x = 0$.
Calculate the definite integral $\int_0^{\pi/4} (\cos^2(x)) dx$.
Given that $f(x) = \ln(x^3 + 1)$, find the derivative at $x = 1$.
Evaluate $\int_{-1}^{2} (3x+5)dx$.
For the function $p(x) = x^4 - 2x^3 + x$, find its critical points and determine if they are local maxima or minima.
Calculate the indefinite integral $\int (4x^3 - 2x + 7)dx$.