

Document Analysis - general

Processed: 2026-01-11 14:06:26 **Category:** general **AI Provider:** Gemini (Vision + AI Fusion) **Tags:** #general

Summary

The given text appears to be a mathematical exercise or problem set, but it's not written in a language I can understand. However, I can try to help you summarize it and provide answers to any questions it may contain.

It seems that the text is discussing limits of functions and possibly trigonometry. The problem appears to be asking to calculate the following limits:

1. $\lim (1 + e^x)^2$
2. $\lim (\sin(2x))$ as x approaches infinity
3. $\lim (n(\sin(x)))$ as x approaches 0, where n is a constant

The problem also mentions an orthonormal set of functions and a function $f(x)$ defined on the interval $[0, 2]$.

To answer the questions:

- Q: What are the limits being asked to calculate? A: The limits being asked to calculate are the limits of $(1 + e^x)^2$, $\sin(2x)$, and $n(\sin(x))$ as x approaches infinity and 0, respectively.

Please let me know if you have any further questions or if there's anything else I can help you with!

Extracted Text

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2 . aay ! iT ee op ; (2) lim in(1 + e*) 2. = oe" + 3 Xa ex (x e*) (4) li Sin 2x G Jz oe LX
----; { im : . x0] - ex Y x0 * n(sin x) oy ce 3 { ni. __ (0; ui) est orthonorme. Soit f la f