## 微積分作業

September 26, 2025

1 Find the derivative of the function using the limit process.

$$f(x) = \frac{1}{x^2}$$

2 find the derivative of the function.

$$f(x) = \frac{2}{\sqrt[3]{x}} + 3\cos x$$

3 find the indicated higher-order derivative.

$$f^{(4)}(t) = t\cos(t), find \ f^{(5)}(t)$$

4 find the second derivative of the function.

$$f(x) = sec^2(\pi x)$$

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