ANTIDERIVATIVE PROBLEMS

HIDENORI SHINOHARA

Exercise. (Problem A) Suppose $f'' = 12x^2 + 6x - 4$ and f(0) = 4 and f(1) = 1. Find f.

Exercise. (Problem B) Find the most general antiderivative of $4 \sin x + \frac{2x^5+1}{x}$.

Exercise. (Problem C) Find f(x) such that $f'(x) = \cos x$.

Exercise. (Problem D) Is $x^2 + 3x - 2$ an antiderivative of 2x - 3?