
Name: [1 pt]

Problem 1. Find f satisfying the conditions: $f''(\theta) = \sin \theta + \cos \theta$, $f(0) = 3$, $f'(0) = 4$. [5 pts]

Problem 2. Give an expression of the area under the graph of $f(x) = \sqrt{\sin x}$, $0 \leq x \leq \pi$, as a limit of a sum. Do not evaluate the limit. [5 pts]