

MAT 17A Winter 2026
Homework 4

Due before 10:00 AM on Wednesday, February 11

Please write the homework solutions in connected sentences and explain your work. Mark the answers to each question. Scan or take pictures of your homework and upload it to Gradescope before due time.

Find the derivatives of the following functions:

1. (10 points)

$$f(x) = \frac{x^2 + 4x + 3}{\sqrt{x}}$$

2. (10 points)

$$f(x) = \frac{1 - xe^x}{x + e^x}$$

3. (10 points)

$$f(x) = \sin(x^2)$$