

Quiz #3, 9/9  
Math 157 (Calculus II), Fall 2025

Problem 1 is worth 5 points, and Problem 2 is worth 5 points, for a total of 10 points. Remember to *show your work* on all problems!

1. Compute the indefinite integral  $\int (x^2 - 3x + 2) \sin(x) dx$  using integration by parts.

2. Compute the *definite* integral  $\int_1^e \ln(x) dx$  using integration by parts. Express your answer in the simplest form you can.