

MAT229 Quiz 04, Spring 2025

Name:

Compute the following integrals. Give an exact answer where possible (i.e., no need to approximate with a decimal).

1. (2 pts) $\int_{-0.10}^{0.10} \sin^{-1}(x) dx$

2. (2 pts) $\int_1^0 x^2 e^{x^3} dx$

3. (2 pts) $\int_0^{-1} \frac{3}{2+2x^2} dx$

4. (4 pts) Demonstrate the method of integration by parts by computing this integral:

$$\int x \sin(x) dx$$