Math 163 - Calculus - Exam 1 **Name:** _____

November 19, 2025

On the exam you must show your work to receive full credit.

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1. $$\int x^3 \sin(2x)\, dx =$$

2. You can also use this notation

$$\frac{d}{dx}\left[\int_0^x t^2\,dt\right] =$$