

# MTH 1125 2pm Class - Test #4

FALL 2023

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Name \_\_\_\_\_

Show **CLEARLY** how you arrive at your answers!

1. **Compute:**  $\int (40x^3 + 24x^2 - 12x + 4 + 3\sqrt{x}) dx =$

2. **Compute:**  $\int (6x^2 + 18x + 2)^5 (2x + 3) dx =$

3. **Compute:**  $\int (8 \sin (x) - 2 \sec ^2 (x) + 5 \csc (x) \cot (x)) dx =$

4. **Compute:**  $\int \cos (9x^2 + 15x + 2) (6x + 5) dx =$

5. **Compute:**  $\int_{-1}^2 (6x^2 + 6x + 4) dx =$

6. **Compute:**  $\int_0^1 (3x^2 - 2x + 1)^3 (3x - 1) dx =$  (The answer may not be a whole number or a positive number)