

MTH 1125 12pm Class - Test #4

FALL 2023

Pat Rossi

Name _____

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

1. **Compute:** $\int (8x^3 + 12x^2 - 12x + 8 + 15\sqrt{x}) dx =$

2. **Compute:** $\int (9x^2 + 12x + 5)^4 (3x + 2) dx =$

3. **Compute:** $\int (6 \cos(x) + 3 \csc^2(x) + 8 \sec(x) \tan(x)) dx =$

4. **Compute:** $\int \cos(5x^2 + 12x + 4) (5x + 6) dx =$

5. **Compute:** $\int_{-1}^1 (9x^2 + 2x + 4) dx =$

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