

MTH 1125 1pm Class - Test #4

FALL 2018

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Name _____

Show CLEARLY how you arrive at your answers!

1. **Compute:** $\int (12x^3 + 9x^2 + 6x + 3 + \sqrt{x}) dx =$

2. **Compute:** $\int (6x^2 + 8x)^9 (3x + 2) dx =$

3. **Compute:** $\int (3 \sin(x) + 4 \csc(x) \cot(x)) dx =$

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

5. **Compute:** $\int_{-1}^1 (3x^2 + 4x + 5) dx =$

6. **Compute:** $\int_0^1 (2x^2 + 1)^3 x dx =$