

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## First Fundamental Theorem of Calculus

Evaluate each definite integral. Round to the nearest ten-thousandth.

1)  $\int_0^1 e^{-4x} dx$

2)  $\int_{-4}^{-2} (x^3 - 9x^2 + 26x - 24) dx$

3)  $\int_8^9 e^{-4x+28} dx$

4)  $\int_3^5 e^{4x-12} dx$

5)  $\int_{-1}^0 (x^3 - 16x^2 + 81x - 126) dx$

6)  $\int_5^7 (-x^3 + 7x^2 - 16x + 12) dx$

7)  $\int_2^3 (x^4 - 8x^3 + 12x^2) dx$

8)  $\int_3^6 (-x^4 + 8x^3 - 15x^2) dx$

