QUIZ IX

First Name: Last Name:

1. (4 points)

State the Fundamental Theorem of Calculus (both parts).

2. (6 points)

For the following exercises, show sufficient work to communicate your process.

(a) Compute $\int \left(-8x + 2e^x + \dfrac{1}{x} \right) dx.$

(b) Compute $\int_{-\pi}^{\pi} (\cos(y) + 1) \, dy.$