MA125-8B Quiz 3

Name: _Key_

Exercise 1. *(5 points) Find the given indefinite integral.*

$$\int x^2 + x - 2\,dx$$

$$\int x^2 + x - 2\,dx = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + C$$

Exercise 2. *(5 points) Evaluate the following definite integral.*

$$\int_0^\pi \sin(x)\,dx$$

$$\int_0^\pi \sin(x)\,dx = \left(-\cos(x)\right)\Big|_0^\pi$$

$$= \left(-\cos(\pi)\right) - \left(-\cos(0)\right)$$

$$= \left(-(-1)\right) - \left(-(1)\right)$$

$$= 2$$