

Student ID:

MATH102, Section 2
Spring 2019, Term 182

Quiz 5
Version A

Student Name:

Serial Number: _____

Instructions: Show Your Work!

1. (5 pts) Is the following integral convergent or divergent?
Evaluate it if convergent.

$$\int_0^{\infty} \frac{dx}{x^2 + 3x + 2}$$

2. (5 pts) Find the exact length of the curve

$$y = \sqrt{x - x^2} + \sin^{-1}(\sqrt{x}).$$
