

Student ID:

Math 102, Section 1
Summer 2017, Term 163

Quiz 3
Version A

Student Name:

Serial Number: _____

Instructions: Show Your Work!

Evaluate the following integrals

1. (3 pts)

$$\int_0^{\frac{\pi}{4}} \tan^4(x) dx.$$

2. (3 pts)

$$\int x (\ln x)^2 dx$$

3. (3 pts)

$$\int \frac{x^3}{\sqrt{4-x^2}} dx.$$

4. (3 pts)

$$\int \frac{x^3 + 2}{x^2 + x} dx.$$

Student ID:

Math 102, Section 4
Summer 2017, Term 163

Quiz 3
Version B

Student Name:

Serial Number: _____

Instructions: Show Your Work!
Evaluate the following integrals

1. (3 pts)

$$\int \tan^3(x) \sec^{3/2}(x) dx.$$

2. (3 pts)

$$\int \sin(\ln x) dx$$

3. (3 pts)

$$\int \frac{x}{\sqrt{x^2 - 6x + 13}} dx.$$

4. (3 pts)

$$\int_1^3 \frac{dx}{x^2 - x + 2}.$$