Student ID:

Student Name:

Serial Number:

Math 102, Section 16
Summer 2017, Term 162
Instructions: Show Your Work!

Quiz 4
Version A

1. (6 pts) Find the arc length function for the curve

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

with starting point $(0, 1)$.

2. (4 pts) Write the integral (DO NOT EVALUATE) that gives the area of the surface resulting from rotating the curve

$$y = x \ln x, \quad 1 \leq x \leq 2$$

about x-axis.

Student ID:

Student Name:

Serial Number:

Math 102, Section 38
Summer 2017, Term 162

Quiz 4
Version B

Instructions: Show Your Work!

1. (6 pts) Find the arc length function for the curve

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

with starting point $(1, 1)$.

2. (4 pts) Write the integral (DO NOT EVALUATE) that gives the area of the surface resulting from rotating the curve

$$y = x + \sqrt{x}, \quad 1 \leq x \leq 2$$

about x-axis.