

Student ID:

Math 102, Section 16
Summer 2017, Term 162

Quiz 2
Version A

Student Name:

Serial Number: _____

Instructions: Show Your Work!

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| <p>1. (5 pts) Find the area of the region bounded by the curves $y = \ln x$, $x + y - 1 = 0$, and $y = 1$.</p> | <p>2. (5 pts) The base of a solid is bounded by the curves $y = x^3$, $y = 0$ and $x = 1$. If the cross-sections of the solid perpendicular to the x-axis are squares, find the volume of the solid.</p> |
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Student ID:

Math 102, Section 38
Summer 2017, Term 162

Quiz 2
Version B

Student Name:

Serial Number: _____

Instructions: Show Your Work!

1. (5 pts) Find the area of the region enclosed by the graphs of the functions $y = x^3 - x$ and $y = 3x$.
2. (5 pts) Find volume of the solid obtained when the region bounded by $y = e^x$, $y = \frac{1}{1+x}$, $x = 0$ and $x = 1$ is rotated about x-axis.