

Quiz# 2

Name: _____

ID #: _____

Section #: 2

Serial #: _____

1. Let \mathbf{R} be the region enclosed by the graph of $y = \ln x$, the line $x = 3$, and the x -axis.
Find the area of \mathbf{R} .

2. Find the volume of the solid obtained by revolving the region \mathbf{R} in (1) above about the y -axis.

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Quiz# 2

Name:

ID #:

Section #: 6

Serial #:

1. The base of a solid S is the region enclosed by the x -axis, the y -axis, and the graph of $y = 1 - \sin x$. The cross section perpendicular to the x -axis is an isosceles right triangle whose hypotenuse is its base. Find the volume of the solid S .

2. Find the surface area of the solid generated by revolving the curve of $x = \frac{1}{2}(e^y + e^{-y})$ from $y = 0$ to $y = \ln 2$ about the y -axis.

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Quiz# 2

Name:

ID #:

Section #: 15

Serial #:

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1. Let \mathbf{R} be the region enclosed between the graphs of $y = \frac{3}{x}$ and $y = \frac{3x}{x^2 + 1}$ from $x = 1$ to $x = \sqrt{3}$. Find the area of \mathbf{R} .

2. Find the length of the curve $y = \int_0^x \sqrt{\cos 2t} dt$ from $x = 0$ to $x = \frac{\pi}{4}$.

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