

Math 132 - Quiz 2 (IC)

August 31, 2022

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (4 points) The region bounded by the graphs of $x + 3y = 3$, $y = 1$, and $x = 3$ is rotated about the line $y = 1$. Find the volume of the solid that is generated.

Math 132 - Quiz 2 (TH)

August 31, 2022

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary. This quiz is due September 7.

1. (3 points) The 1st quadrant region bounded by the graphs of $y = x^2$ and $y = x^3$ is rotated about the line $x = 4$. Find the volume of the solid that is generated.

2. (3 points) The base of a solid is the region in the xy -plane bounded by the graphs of $y = 0$ and $y = 1 - x^2$. The cross sections (slices) perpendicular to the xy -plane and parallel to the x -axis are squares. Find the volume of the solid.