Math 172 - Quiz 6

October 5, 2016

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary. Set up the definite integral required for each problem. Then use your calculator to approximate its value.

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1. (5 points) The region bounded by the graphs of $y = 4 - \frac{x^2}{4}$ and $y = 2$ is rotated about the x-axis to generate a solid. Find the volume of the solid.

2. (5 points) The region bounded by the graphs of $y = x^2$, $y = 0$, and $x = 2$ is rotated about the line $x = 2$ to form a solid. Find the volume of the solid.