

Quiz 2

Five points each.

1. Find the area of the region bounded by $y = x^2$ and $y = -x + 2$ and between $x = 0$ and $x = 2$.
2. Find the volume of the solid obtained by rotating the region bounded by $y = \frac{x}{\sqrt{x^3+1}}$, $x = 0$, $x = 1$ rotated about the x -axis.