



Math 182 Honors Quiz 5 Version A

3. Find the area of the surface of revolution generated by revolving the arc  $y = x^2$  from  $0 \leq x \leq 2$  about the  $y$ -axis.

4. The region bounded by  $y = \frac{x}{\sqrt{x^3 + 8}}$ , the  $x$ -axis and the line  $x = 2$  is revolved about the  $y$ -axis. Find the volume of the solid generated in this way.