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Worksheet 5 Arc Length & Surface Area

 $MATH\ 2205,\ Fall\ 2018$

1. Find the arc length of the curve $y = \frac{x^4}{8} + \frac{1}{4x^2}$ on the interval [1, 2].

2. Find the arc length of the curve $y = \frac{1}{3}(x^2 + 2)^{3/2}$ on the interval [0, 1]

3. Find the surface area of the solid generated by the curve $y = \frac{x^2}{4}$ revolved around the y-axis on the interval $2 \le x \le 4$.

4. Find the surface area of the solid generated by the curve $y = \frac{x^4}{8} + \frac{1}{4x^2}$ revolved around the x-axis on the interval [1, 2].