

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = \sqrt{x+1}$, $y = x$, $x = 0$ and $x = 1$ about the x -axis.

Exercise 2 (5 points)

Find the area of the surface of the solid obtained by rotating the curves $y = \frac{1}{2}x^2 - 4, 0 \leq x \leq 1$ about the y -axis

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Exercise 2 (5 points)

Find the area of the surface of the solid obtained by rotating the curves $y = \frac{1}{2}x^2 + 4, 0 \leq x \leq 1$ about the y -axis .

