

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Use cylindrical shells to find the volume of the solid obtained by rotating the region in the first quadrant enclosed by the curves $y = x^2$, $y = 2$ and $x = 0$ about the line $y = 2$.

Exercise 2 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^2$, $y = 2$ and $x = 0$ about the line $y = -1$.

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^3$ and $y = x^2$ about the x -axis .

Exercise 2 (5 points)

Use cylindrical shells to find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^3$ and $y = x^2$ about the line $x = -2$.

