

Math 1710 Extra Problems for Section 6.7

Find the volumes of revolution described below.

- 1) Rotate the area bounded by $y = \cos(x)$, the x -axis, the y -axis, and $x = \pi/2$ around the x -axis.
- 2) Rotate the area bounded by $y = \cos(x)$, the x -axis, the y -axis, and $x = \pi/2$ around the y -axis.
- 3) Rotate the area bounded by $y = 1/x$, the x -axis, the $x = 1$, and $x = 2$ around the y -axis.
- 4) Rotate the area bounded by $y = 1/x$, the x -axis, the $x = 1$, and $x = 2$ around the y -axis.
- 5) Rotate the area bounded by $y = 1/x^2$, the x -axis, the $x = 1$, and $x = 2$ around the y -axis.