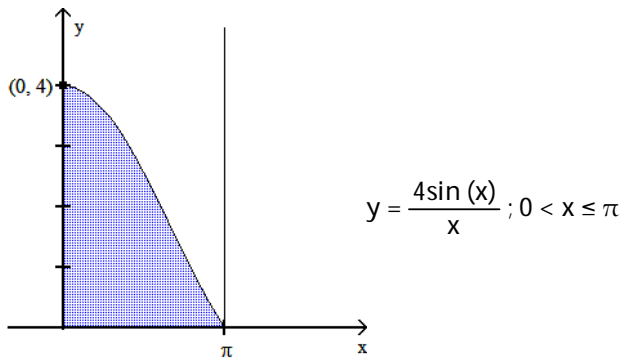


Use the shell method to find the volume of the solid generated by revolving the shaded region about the indicated axis.

1) About the y-axis

1) _____



Use the shell method to find the volume of the solid generated by revolving the region bounded by the given curves and lines about the y-axis.

2) $y = 7x^3$, $y = 7x$, for $x \geq 0$

2) _____

Use the shell method to find the volume of the solid generated by revolving the region bounded by the given curves and lines about the x-axis.

3) $x = 4y - y^2$, $x = 0$

3) _____

Use the shell method to find the volume of the solid generated by revolving the region bounded by the given curves about the given lines.

4) $y = 3x$, $y = 0$, $x = 2$; revolve about the line $x = -3$

4) _____

Find the volume of the solid generated by revolving the region about the given axis. Use the shell or washer method.

5) The region bounded by $x = 4\sqrt{y}$, $x = -4y$, and $y = 1$ about the line $y = 1$

5) _____

Answers: 1) 16π ,
 2) $28\pi/15$
 3) $128\pi/3$
 4) 52π
 5) $52\pi/15$