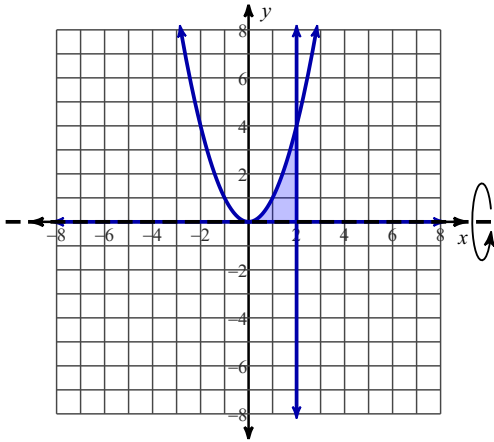


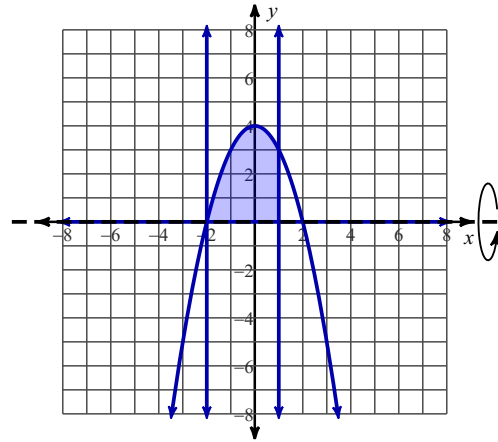
Volume by Disks and Washers: x-axis Revolutions

For each problem, find the volume of the solid that results when the region enclosed by the curves is revolved about the x-axis.

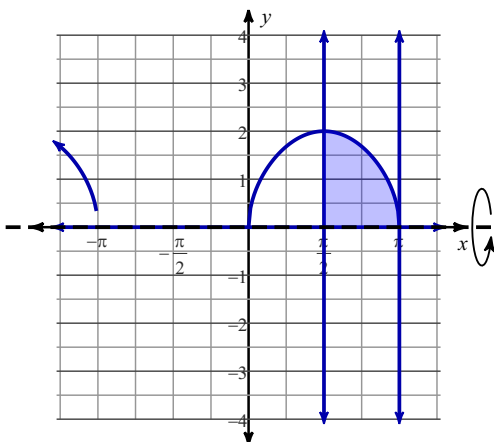
1) $y = x^2, y = 0, x = 2$



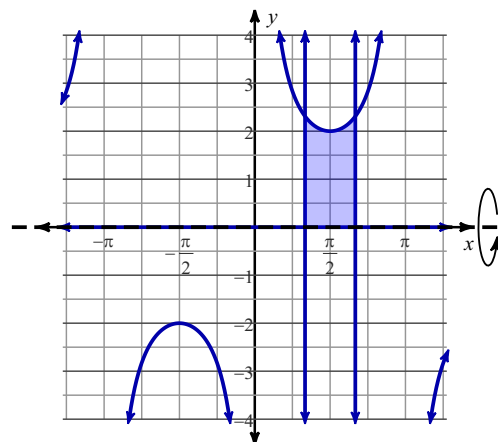
2) $y = -x^2 + 4, y = 0, x = -2, x = 1$



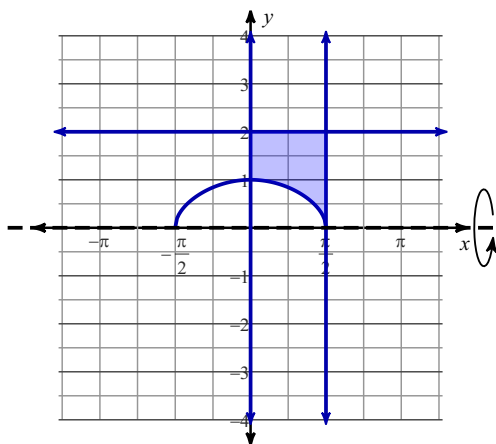
3) $y = 2\sqrt{\sin x}, y = 0, x = \frac{\pi}{2}, x = \pi$



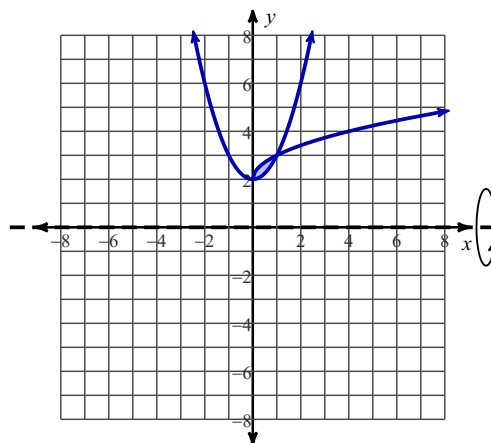
4) $y = 2\csc x, y = 0, x = \frac{\pi}{3}, x = \frac{2\pi}{3}$



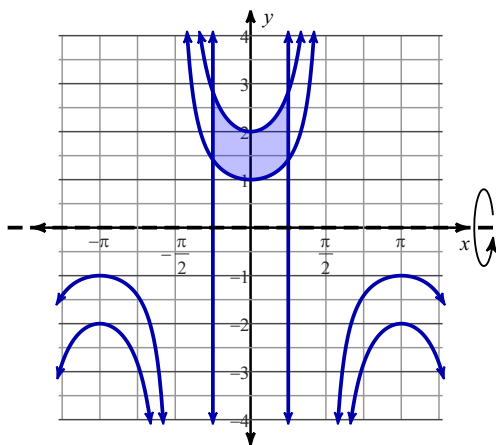
5) $y = 2$, $y = \sqrt{\cos x}$, $x = 0$, $x = \frac{\pi}{2}$



6) $y = \sqrt{x + 2}$, $y = x^2 + 2$



7) $y = 2\sec x$, $y = \sec x$, $x = -\frac{\pi}{4}$, $x = \frac{\pi}{4}$



8) $y = 2\sqrt{\cos x}$, $y = \sqrt{\cos x}$, $x = -\frac{\pi}{3}$, $x = 0$

