

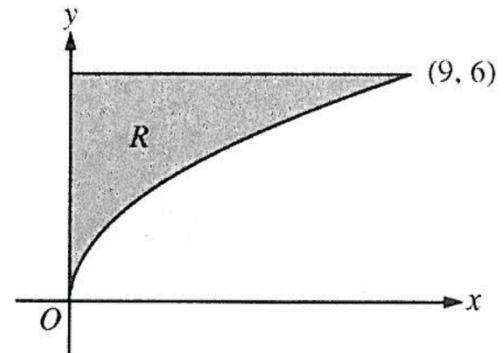
What Happens When the Smog Lifts in Los Angeles, California?

Calculate the volume and find the answer at the bottom of the page. Cross out the letter above each correct answer. When you finish, the answer to the title question will remain.

1. Region R is bounded by the y -axis, the line $y = 6$, and the curve $y = 2\sqrt{x}$.

Find the volume of the solid generated when Region R is rotated around

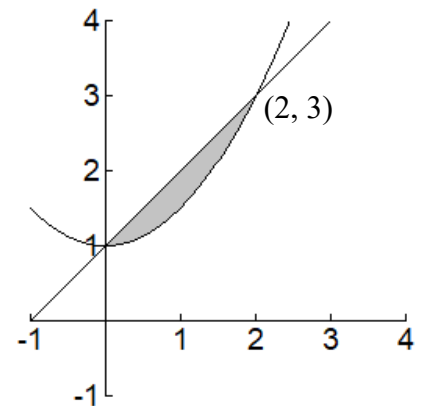
- The y -axis
- The x -axis
- The vertical line $x = -2$
- The horizontal line $y = 6$



2. Let J be the region bounded by $f(x) = x + 1$ and $g(x) = \frac{1}{2}x^2 + 1$.

Find the volume of the solid generated when J is rotated around

- The line $y = 1$
- The line $x = 3$
- The x -axis
- The y -axis



A	B	U	S	O	C	E	L	W	R	A	Y
54π	$\frac{8\pi}{3}$	$\frac{11\pi}{6}$	162π	2.4π	20.2π	97.2π	$\frac{32\pi}{3}$	$\frac{4\pi}{3}$	$\frac{16\pi}{15}$	1.2π	169.2π