

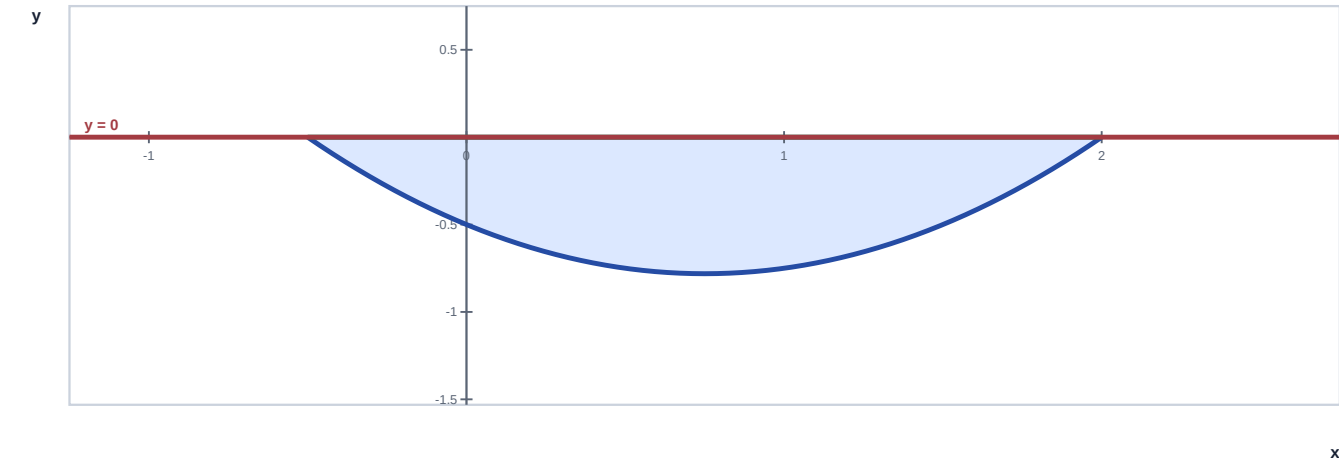
Volumes of Washers and Disks

Use washers or disks to find each exact volume. Show the radii, setup, and evaluation.

1. Rotate the shaded region about the horizontal line $y = 0$.

$y = F(x) = \frac{1}{2} \cdot x^2 - \frac{3}{4} \cdot x - \frac{1}{2}$

$y = G(x) = 0$

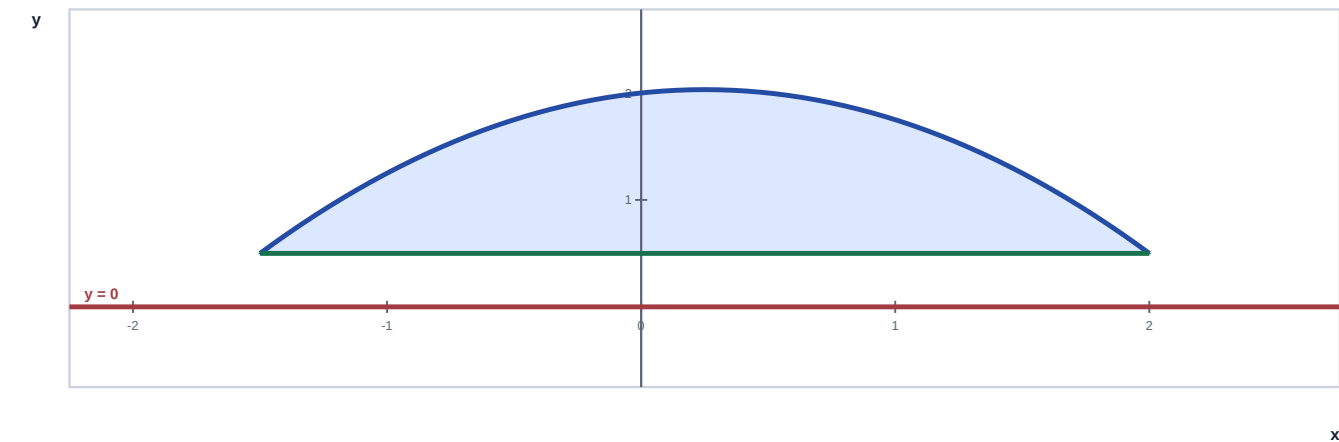


Show R, r, the washer/disk integral, and exact volume:

2. Rotate the shaded region about the horizontal line $y = 0$.

$y = F(x) = -\frac{1}{2} \cdot x^2 + \frac{1}{4} \cdot x + 2$

$y = G(x) = \frac{1}{2}$



Show R, r, the washer/disk integral, and exact volume:

Volumes of Washers and Disks

Use washers or disks to find each exact volume. Show the radii, setup, and evaluation.

3. Rotate the shaded region about the horizontal line $y = 7/2$.

$y = F(x) = \frac{1}{2} \cdot x^2 + \frac{5}{4} \cdot x - 10$

$y = G(x) = 5 \cdot x - 17$

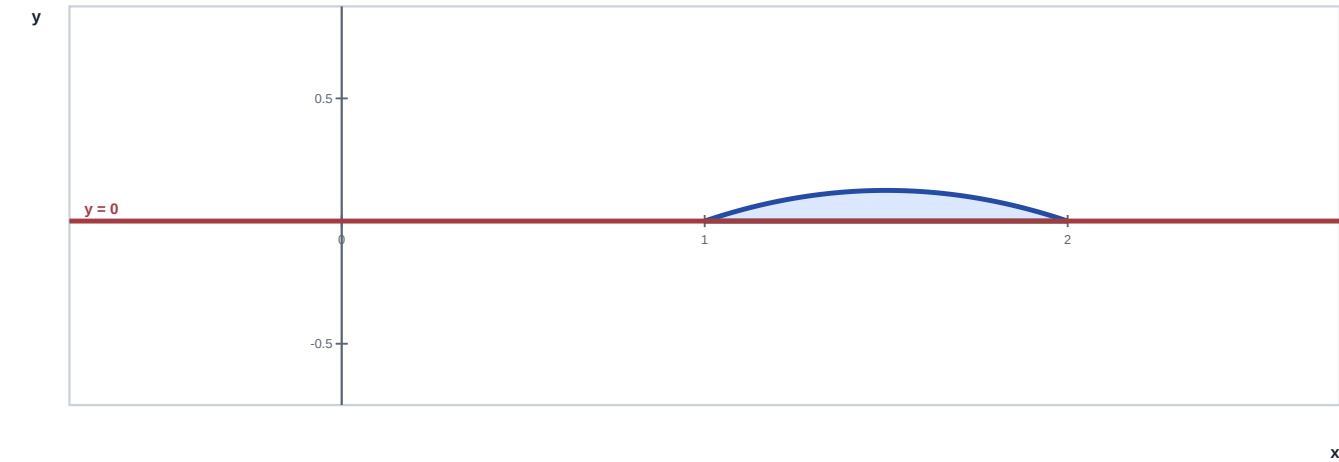


Show R, r, the washer/disk integral, and exact volume:

4. Rotate the shaded region about the horizontal line $y = 0$.

$y = F(x) = -\frac{1}{2} \cdot x^2 + \frac{3}{2} \cdot x - 1$

$y = G(x) = 0$



Show R, r, the washer/disk integral, and exact volume:
