9.1 Riemann Sums

Riemann Sum –

Find the area underneath the curve $y = x^2 + 1$ from x = 0 to x = 3.

Right Sum	Left Sum	Midpoint Sum

Right Sums –

Left Sums –

Midpoint Sums –

Width formula –

Approximate the area beneath the curve $g(x) = -\cos x$ on the interval $\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$ using n = 4 rectangles and (1) left sums, (2) right sums, and (3) midpoint sums.