Exercises:

- 1. Calculate the Left Riemann Sum using 4 rectangles over the interval specified:
 - (a) 2x + 2 over (1,5)
 - (b) $\cos(x)$ over $(0, \frac{\pi}{2})$
 - (c) $\frac{e^x}{x-1}$ over (2,3)
- 2. Calculate the Right Riemann Sum using 4 rectangles over the interval specified:
 - (a) 2x + 2 over (1, 5)
 - (b) $\cos(x)$ over $(0, \frac{\pi}{2})$
 - (c) $\frac{e^x}{x-1}$ over (2,3)
- 3. Calculate the Midpoint Riemann Sum using 4 rectangles over the interval specified:
 - (a) 2x + 2 over (1, 5)
 - (b) $\cos(x)$ over $(0, \frac{\pi}{2})$
 - (c) $\frac{e^x}{x-1}$ over (2,3)
- 4. Calculate the Trapezoidal Sum using 6 trapezoids over the interval specified:
 - (a) 2x + 2 over (1, 4)
 - (b) $x \sin(x)$ over $(0, \pi)$
 - (c) $.5x^3 2x^2 + 1$ over (-2, 4)