

1. **Set up** a Riemann sum to estimate the area under the graph of $f(x) = 5x^2 + 2$ between $x = 0$ and $x = 1$ using 3 subdivisions and left endpoints. Draw the graph and the 3 rectangles.
2. Repeat question 1 using right endpoints.
3. Repeat question 1 using midpoints.
4. Compute the Riemann sum in question 1.
5. Compute the Riemann sum in question 2.

6. Use $n = 3$ subdivisions and left endpoints to estimate the area under the graph of $f(x) = 3x^2 + 1$ between $x = 0$ and $x = 1$.

7. Repeat question 6 using right endpoints.

8. Use $n = 6$ subdivisions and left endpoints to estimate the area under the graph of $f(x) = 2x + 1$ between $x = 0$ and $x = 3$.

9. Repeat question 8 using right endpoints.