Additional Questions for Homework on Section 5.2.

For A-D, calculate the Reimann sum for the given function over the given interval with the specified partition and sample points

A. $f(x) = x^3 + 1$, over $[0, 2]$ with five subintervals of equal width using midpoint sample points.

B. $g(x) = \frac{1}{x}$, over $[3, 5]$ with four subintervals of equal width using left-hand endpoints.

C. $h(x) = x^2 + x$, over $[2, 4]$ with the partition $P = \{2, 2.5, 2.8, 3.3, 4\}$ and sample points, 2.4, 2.8, 3.2, 3.6.

D. $f(x) = x^2 + 10$, over $[0, 1]$ with the partition $P = \{0, 0.2, 0.3, 0.5, 0.8, 1\}$ and sample points, 0, 0.3, 0.4, 0.7, 1.

E. Find the norm of the partition for each of the Riemann sums in A-D.