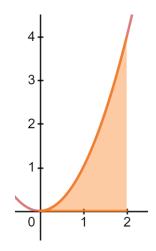
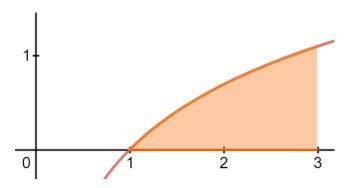
Area Approximation Practice

Approximate the following areas using all four methods. Write the sigma notation for the sum.

1. $f(x) = x^2$ on [0, 2] using 4 subintervals



2. $f(x) = \ln x$ on [1,3] using 8 subintervals



3. $f(x) = \frac{1}{x^2+1}$ on [-3,3] using 6 subintervals.

