## 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.

