AP Calculus AB Name ­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Approximation and Definite Integrals Quiz Review 2

1. Region *S* is bound by the x-axis, the y-axis , x = 3 and the function. Sketch the graph of region *S* and approximate the area using right end points with 3 subintervals.

2. Approximate the area under the function  from x = 1 to x = 6 using trapezoidal approximations and 3 subintervals.

3. Approximate the area under the function in the interval [1, 3] with *n* = 4 using midpoints.

4. Find the area bound by the x-axis and the function.

5. Find the area bound by the x-axis and the function.