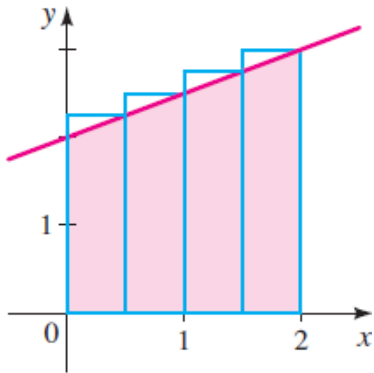


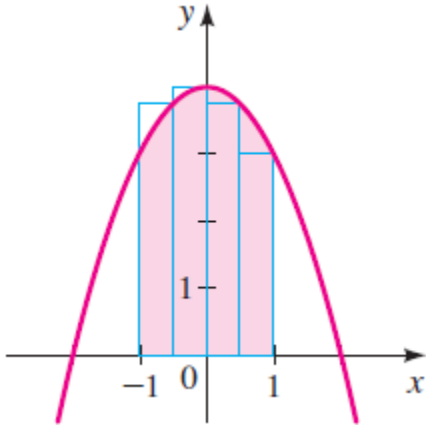
HW 4.2

#1-3 Approximate the area of the shaded region under the graph of the given function by using the indicated rectangles. (The rectangles have equal length.)

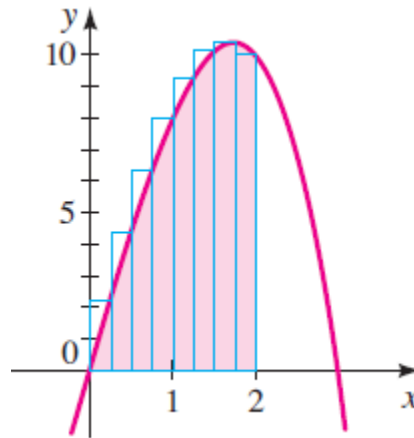
1.  $f(x) = \frac{1}{2}x + 2$



2.  $f(x) = 4 - x^2$



3.  $f(x) = 9x - x^3$



Use the limit process to find the area of the region between the graph of the function and the x-axis over the given interval.

48.  $y = 3x - 4$ ,  $[2, 5]$

53.  $y = 64 - x^3$ ,  $[1, 4]$

49.  $y = x^2 + 2$ ,  $[0, 1]$

54.  $y = 2x - x^3$ ,  $[0, 1]$

50.  $y = x^2 + 1$ ,  $[0, 3]$

55.  $y = x^2 - x^3$ ,  $[-1, 1]$