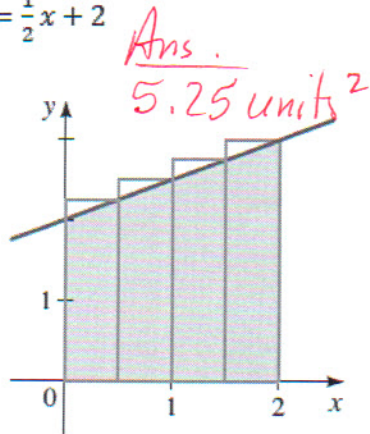


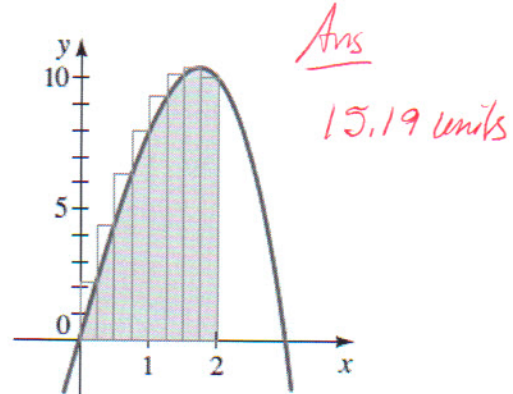
HW 4.2

#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.)

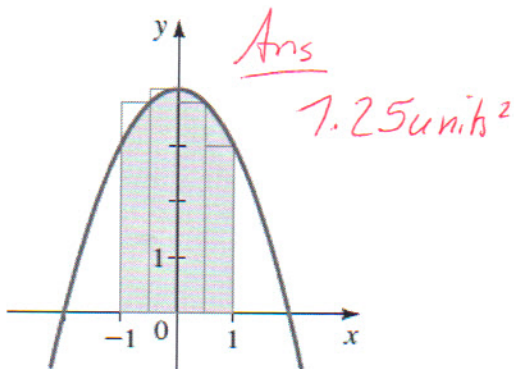
1. $f(x) = \frac{1}{2}x + 2$



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



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



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. $y = 3x - 4, [2,5]$ $A = \frac{39}{2}$

53. $y = 64 - x^3, [1,4]$ $A = \frac{513}{4}$

49. $y = x^2 + 2, [0,1]$ $A = \frac{7}{3}$

54. $y = 2x - x^3, [0,1]$ $A = \frac{3}{4}$

50. $y = x^2 + 1, [0,3]$ $A = 12$

55. $y = x^2 - x^3, [-1,1]$ $A = \frac{2}{3}$