CALCULUS: Homework
2/12-2/16

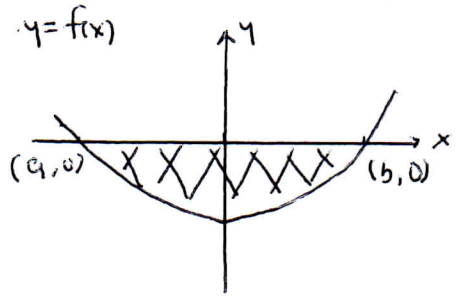
due: Tuesday:

1. pp. 392 – 393 / # 2, 4, 51
2. pg. 413 / #34a
3. pg. 429 / #23, 25, 26, 27
4. For what value of k, $k > 0$, does $\int_0^k (4kx - 5k)dx = k^2$?
5. If $\int_0^2 (2x^3 - kx^2 + 2k)dx = 12$, find k.

on: Wednesday: test

due: Friday: read pp. 433 – 440

1. pg. 440 / #1,3
2. Find the area of the region in the first quadrant enclosed by the graph of $y = x - x^2$ and the x-axis.
3. If f is a continuous function as shown, then the area of the shaded region is:
   a. $\int_a^b f(x)dx$
   b. $\int_b^a f(x)dx$
   c. $\int_b^{-a} f(x)dx$
   d. $\int_{-a}^b f(x)dx$
   e. $\int_{-a}^{-b} f(x)dx$



Monday:
pg. 441 / #10, 12, 20