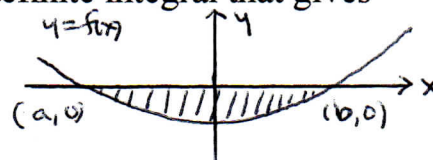


AP:

Homework
12/18-12/22

due: Tuesday: read pp. 400-401

1. pg. 396 / #13, 24, 28
2. Find the total area enclosed by the graphs of $y = x$ and $y = x^3 - 2x^2 - 3x + 1$.
3. If $f(x)$ is continuous on $[a, b]$ as shown, write a definite integral that gives the area of the shaded region.



Wednesday:

1. pg. 386 / #1c, 4c
2. Find the total distance traveled by the particle between $t = a$ and $t = b$:
 - a. $v = t^2 - t - 2$ from $t = 0$ to $t = 3$.
 - b. $s = t^2 - 4t + 5$ from $t = 1$ to $t = 4$.

on: Wednesday: quiz

Friday:

pp. 407-409 / #14, 17, 19, 28, 67

Tuesday: read pp. 401-403

1. pg. 408 / #35, 36, 37
2. Find the volume of the solid generated when the region bounded by $y = x^2 + 1$, $y = 0$, $x = 0$, and $x = 1$ is rotated about the y-axis.
3. Let R be the region bounded by $y = x$, $y = 1$, and $x = 2$. Find the volume generated when R is rotated about the x-axis.