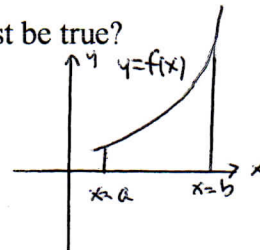


AP:

Homework
12/11-12/15

due: Tuesday: read pp. 286-288

- pp. 291-292 / #33, 35, 49, 50
- If f is continuous and increasing on $[a, b]$ as shown, which of the following must be true?
 - $\int_a^b f(x) dx \leq f(b) \cdot (b - a)$
 - $\int_a^b f(x) dx \geq f(a) \cdot (b - a)$
 - $\int_a^b f(x) dx = f(c) \cdot (b - a)$ for some number c such that $a < c < b$.



Wednesday:

- pp. 302-304 / #14, 34, 69
- Evaluate: a. $\int_0^1 \sqrt{5x+4} dx$ b. $\int_0^{\sqrt{7}} x(x^2+1)^{1/3} dx$ c. $\int_{-4}^6 |x-2| dx$
- For what value of k , $k > 0$, does $\int_0^k (4kx - 5k) dx = k^2$?
- If $\int_0^2 (2x^3 - kx^2 + 2k) dx = 12$, find k .

on: Thursday: test

due: Friday: read pp. 306-308

pg. 312 / #3, 5, 6, 7

Monday: read pp. 390-394

- pp. 395-396 / #3, 5, 16, 17
- Find the area of the region in the first quadrant enclosed by the graph of $y = x - x^2$ and the x-axis.