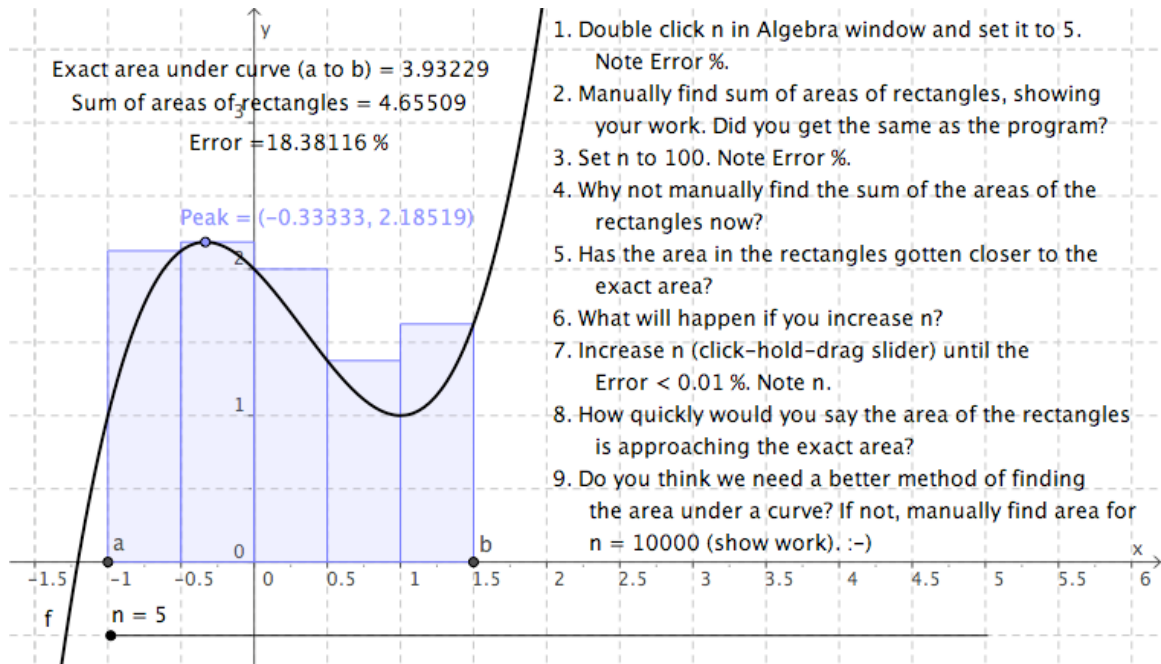


## The Area Problem



1. Double click n in Algebra window and set it to 5. Note Error %.
2. Manually find sum of areas of rectangles, showing your work. Did you get the same as the program?
3. Set n to 100. Note Error %.
4. Why not manually find the sum of the areas of the rectangles now?
5. Has the area in the rectangles gotten closer to the exact area?
6. What will happen if you increase n?
7. Increase n (click-hold-drag slider) until the Error < 0.01 %. Note n.
8. How quickly would you say the area of the rectangles is approaching the exact area?
9. Do you think we need a better method of finding the area under a curve? If not, manually find area for n = 10000 (show work). :-)