

203: Homework 4 Due: 22/September

From “Structure and Proof”, do the following problems:

4.1,4.2,4.7,4.27.

5. Let $[x]$ denote the greatest integer less than or equal to x . Evaluate:

(i) $\int_{-1}^2 [x] dx$.

(ii) $\int_0^2 [x^2] dx$.

6. Prove that $\int_a^b [x] dx + \int_a^b [-x] dx = a - b$.