

M 408C - Differential and Integral Calculus

Week 11 - 4.9, 5.1, 5.2

Quest HW 11 - Due Monday at 11:30p.

Gradescope HW 11 - Due Wednesday at 11:30p on Gradescope.

§4.9, #21, 37, 58

§5.1, #8

§5.2, #8, 9, 35, 36

Additional Thing (optional) :

#1) The symbol $\llbracket x \rrbracket$ means the integral part of a number. For example, $\llbracket 5.7 \rrbracket = 5$, $\llbracket 6.99 \rrbracket = 6$, and $\llbracket 2 \rrbracket = 2$.

a) (5 points) Find $\int_0^n \llbracket x \rrbracket dx$, where n is a positive integer.

a) (10 points) Find $\int_a^b \llbracket x \rrbracket dx$, where a and b are real numbers and $0 < a < b$.