

MATH 2050A - HW 9

Due Date: 3 Dec 2020, 23:59

*You are reminded that your HW is graded
based on **both** your idea and your presentation*

Problems: P.148: 8,10

(3 Questions in total)

Textbook: Bartle RG, Sherbert DR(2011). Introduction to Real Analysis, fourth edition, John Wiley Sons,Inc.

We type here all the required problems *for your convenience only*. The presentation of the problems here may be different from the original one but the respective solution should be unaffected.

1 (P.148 Q8). Let f, g be real-valued, uniformly continuous functions on \mathbb{R} . Show that the composition $f \circ g$ is uniformly continuous on \mathbb{R}

2 (P.148 Q10). Let $A \subset \mathbb{R}$ be a bounded subset. Suppose f is a real-valued function uniformly continuous on A . Show that f is bounded on A .