

Homework 2A

This is a voluntary homework. Solving it, you can gain extra points to the exam. Hand in before the next lecture i.e. 4 Oct 16:15 (either on my desk in the classroom or send to my e-mail). You are eligible for getting points only if you hand in on time and only if it is solved (more or less) correctly.

Problem. Using mathematical induction, prove that $2 + 5 + 8 + \dots + (3n - 1) = \frac{1}{2}n(3n + 1)$ for every $n \in \mathbb{N}$.