Math 15A Homework 6 March 8, 2019

Name: _____

Pid: _____

1. (10 points) Let n be a positive integer. Show that in any set of n consecutive integers there is at least one divisible by n.

2. Prove that for every integers $a_1, \ldots, a_n$ there are $k > 0$ and $\ell \geq 0$ such that $k + \ell \leq n$ and $\sum_{i=k}^{k+\ell} a_i$ is divisible by n.