PAMO Stream Test 2

June Camp 2017

Time: $4\frac{1}{2}$ hours

- 1. Let $\mathbb Z$ and $\mathbb Q$ be the sets of it negers and rationals respectively.
 - (a) Does there exist a partition of \mathbb{Z} into three non-empty subsets A, B, C such that the sets A+B, B+C and C+A are disjoint?
 - (b) Does there exist a partition of \mathbb{Q} into three non-empty subsets A, B, C such that the sets A+B, B+C and C+A are disjoint?

2.

3.