Affine Kac-Moody Lie algebras
Homework 3
due 01.12.17

1. Find all roots, describe the root spaces and find their dimensions for the untwisted affine algebras of affine type A.

2. Find all roots, describe the root spaces and find their dimensions for the untwisted affine algebras of affine type B.

3. Find all roots, describe the root spaces and find their dimensions for the untwisted affine algebras of affine type C.

4. Find all roots, describe the root spaces and find their dimensions for the untwisted affine algebras of affine type D.