Lie groups

Homework #5, due Monday, November 3.

1-5. Exercises from Humphreys: exercise 5 on page 24, exercises 4, 5a,c on page 30, exercises 6, 7 on page 31.

6. Compute the Casimir element in U(sl(2)) associated to the irreducible n+1-dimensional representation V_n . How do these elements differ for different n?