Lie groups

Homework #6, due Wednesday, November 12.

- 1-4. Exercises from Humphreys, page 41: exercise 6 (for $\mathfrak{sl}(n)$ only), 9, 10, 11.
- 5. Prove that the Lie algebra so(2n+1) is simple for all n>0 using the root space decomposition derived in class.