UH - Math 7350 - Dr. Heier - Spring 2012
HW 3
Due 03/20/12, at the beginning of class.

Use regular sheets of paper, stapled together.
Don't forget to write your name on page 1.

1. (1 point) Prove that the kernel and image of a Lie algebra homomorphism are Lie subalgebras.

2. (1 point) Problem 4-11 (page 101)

3. (2 points) Problem 4-15 (page 102)

4. (2 points) Problem 4-16 (page 102)

5. (2 points) Problem 4-18 (page 102)

6. (1 point) Problem 5-1 (page 121)

7. (1 point) Problem 6-1(a) (page 151)