Problem Set 3

Due: October 13, 2008

1. Humphreys, p. 107, Exercise 1.

2. Humphreys, p. 108, Exercise 6. (In other words, prove that if G is a d-group and $H \subset G$ is a closed connected subgroup, then $G \simeq H \times G/H$.)

3. Humphreys, p. 108, Exercise 12.

4. Humphreys, p. 115, Exercise 8.