Math 42-Number Theory
Problem of the Day #11
Due Tuesday, March 15, 2011

1. In U_{71}, what is the order of 7, of 2, of $7 \cdot 2$, of 51, of 54, of $51 \cdot 54$? In U_{29}, what is the order of 28, of 16, of $28 \cdot 16$? (Note: It may make this problem easier to use generators!) Do you notice any patterns?