AMAT 327(Z): Elementary Abstract Algebra, Spring 2011 $\qquad$ Quiz # 10, March 14

Name: ....

1] Find explicitly the number of elements in the group U_{275}.

2] Is $[24]$ an element of U_{275}? Explain your answer, and if your answer is 'Yes' then compute the inverse of $[24]$ in U_{275} and express it as $[a]$ with $0 < a < 275$.