AMAT 327(Z): Elementary Abstract Algebra, Spring 2012   Quiz # 13, March 8

Name: ....

1] For an integer $n \geq 2$, what is the definition of U_n?

2] Find explicitly the number of elements in U_{135}.

3] Is $[71]$ an element of U_{135}? Explain your answer, and if your answer is 'Yes' then compute the inverse of $[71]$ in U_{135} and express it as $[a]$ with $0 < a < 135$.