AMAT	327(Z): Elementar	y Abstract Algebra,	Spring 2012	Quiz $\#$ 20, April 19
Name:				

• Please complete the following definition: a subgroup H of a group G is said to be normal in G if

• Find all right cosets of H = (gf) in S_3 , where $gf = \begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$.

How many cosets of H are there? How many elements does each of them contain?

• Find all right cosets of $K = \begin{pmatrix} f \end{pmatrix}$ in S_3 , where $f = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$.

How many cosets of K are there? How many elements does each of them contain?