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 $H=(g f)$ in $S_{3}$, where $g f=\left(\begin{array}{lll}1 & 2 & 3 \\ 1 & 3 & 2\end{array}\right)$.

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

- Find all right cosets of $K=(f)$ in $S_{3}$, where $f=\left(\begin{array}{lll}1 & 2 & 3 \\ 2 & 3 & 1\end{array}\right)$.

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

