Permutations and Pipe Dreams

What is a permutation?

Give an example of a permutation from S_4 in *one-line notation* and draw an associated pipe dream.

What is a *reduced word* for a permutation? Give an example of a reduced word for the permutation you gave above.

How many other reduced words for your example permutation can be found? Write them all.

How many other pipe dreams for your example permutation can be found? Draw them all.