MTH 4441 Homework #8 - Permutations

Fall 2023

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Name ____

For exercises ??-??:

- ¹ Express the given permutation on the set $\{1, 2, 3, ..., n\}$ into the "product" of disjoint cycles
- ² Express the given permutation on the set $\{1, 2, 3, ..., n\}$ into the "product" of transpositions
 - ³ Classify the permutation as being either "even" or "odd"

$$1. \, \left(\begin{array}{rrrrr} 1 & 2 & 3 & 4 & 5 & 6 \\ 3 & 6 & 1 & 4 & 2 & 5 \end{array}\right) =$$