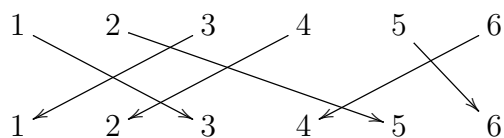


Worksheet 18

Math 392, Abstract Algebra

Wednesday, March 3, 2021

1. Let σ be the following elements of S_6 :

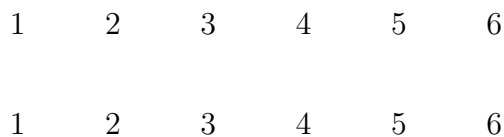


Write σ in cycle notation.

2. In S_6 , let

$$\sigma = (162)(34)$$

Show what σ does by drawing arrows:



3. Let $\sigma = (123456) \in S_6$. Write σ^2 and σ^3 in cycle notation.