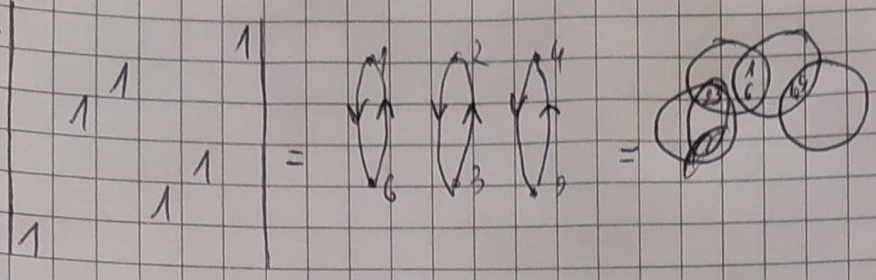
$p = \langle 6\,3\,2\,5\,4\,1 \rangle = \begin{pmatrix} 1&2&3&4&5&6 \\ 6&3&2&5&4&1 \end{pmatrix} = (16)(23)(45) = (f(1)=6\ f(6)=3\ f(3)=2\ f(2)=5\ f(5)=4\ f(4)=1) =$

=



1/

a/ $p = \langle 7,5,9,1,3,6,4,8,2 \rangle = (174)(2539)(6)(8)$

$|S_n| = 9! = 362880 \quad n = 9$

b/ punkty stałe 6 i 8

c/ $p^{-1} = \langle 4\,9\,5\,7\,1\,6\,3\,8\,2 \rangle$

d/ $pr = \langle 2,8,4,6,3,1,9,5,7 \rangle$

e/ $[1^2\ 3^1\ 4^1]$

f/ $ord(p) = NWW(4,3) = 12$

i/ liczba cykli = 4

j/ liczba cykli niepamiętych = 1

k/ liczba cykli niepamiętych = 3

l/ inwersje: (7,5)(7,1)(7,3)(7,6)(7,4)(7,2)(5,1)(5,3)(5,4)(5,2)(9,1)(9,3)(9,6)(9,4)(9,8)(9,2)
(3,2)(6,4)(6,2)(4,2)(8,2)

m/ liczba inwersji = 21

n/ $w_i = [6,4,6,0,1,2,1,1,0]$

o/ $sign(p) = (-1)^{21} = -1 \quad l(p) = 21$

$sign(p) = (-1)^{7+4} = -1 \quad c(p) = 4$

$sign(p) = (-1)^5 = -1 \quad r(p) = 5$

$sign(p) = (-1)^1 = -1 \quad c_p(p) = 1$

$sign(p) = \det(A) = -1$