Лабораторная работа №4 Axun W. U. 331rp. 5 Bapyanm Baganue 1 $X = \{1,2,3\}, f = \begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}, g = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 2 & 2 \end{pmatrix}, S = \langle f,g \rangle = ?$ $ff = \begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix} = \begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix} = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$ $gg = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 2 & 2 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 2 & 2 & 2 \end{pmatrix} = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 2 & 2 \end{pmatrix}$ $fg = \begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 2 & 2 & 2 \end{pmatrix} = \begin{pmatrix} 1 & 2 & 3 \\ 1 & 1 & 2 \\ 2 & 2 & 2 \end{pmatrix}$ очениять:
Все ост, опани-се на д будут шеть результат (223) $g^{2}f = (\frac{123}{222})(\frac{123}{222})(\frac{123}{321}) = \frac{122}{1222} = (\frac{123}{222})$ $g_{1}^{2} = \begin{pmatrix} 123 \\ 222 \end{pmatrix} \begin{pmatrix} 123 \\ 321 \end{pmatrix} \begin{pmatrix} 123 \\ 321 \end{pmatrix} = \begin{pmatrix} 123 \\ 122 \\ 122 \end{pmatrix} = \begin{pmatrix} 123 \\ 222 \end{pmatrix}$ Ombem: $S = \langle f, g \rangle = \begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 4 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 2 & 2 & 2 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 1 & 4 & 4 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 4 & 2 & 3 \end{pmatrix}$

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3aganae 2
     a=(+2345), X={1,2,3,4,5}, k=?, m=?
    2 (12345) (12345) = 12345

Q = (12345) (123423) = 123 = (12345)

1 3 4 2 3 = (2 4 2 3 4)
  3 2 (123 45) (123 45) = 123 45 (123 45) = 123 45 (123 45) = 123 45 (123 45) = 124 23 4 5 (323 42)
 => Ombem: ungere k = 1, nepung m = 4-1=3
 Baganue 3
 S= < x, y: xy = yx, x = x , y = x>
 War 1 (gnuna 1): X u y me sub. nexgy cooon => Brocum ux 6 cuci. mpeger
 Már 2 (grune 2): x2, xy=yx,yx,y=x. Uz zmux cnob monous cnobe
 x2 a yx ne sub. omm. womp. E apyrum paner Brigenennia choban =>
 -> snocur x2 a yx B cum. npegemabrieneis.
                                                               Mar 3 (gruna 3): x3=x2, x2 = xxy = xyx = yx2, yx2, yxy = y2x = x2
                                                               Из эти слов тольно слово ух не экв. отн. понтр. Е другин
pance Brigeneurin a enobal > Brocell yx B celem insequina Brieneil
Mar 4 (gnuha 4): yx3=yx2, yx2 = yxyx=yyxx=x3=x2. Bce = 74
cnoba sub. omn. worp. & paner Burgenerusia cnobal
3 Hayum, S = {x,y, x2, yx, yx2} - nonhar cucmena
 npegemabuteneti knaccob nous. E.
 Ombem:
              S={x,y,x}yx,yx}
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