

D(R) D(C) D(N) D(N) D(N)

D(C) D(R) D(N) D(N)

D(C) D(R) D(N) D(N)

EDCOMPOSITION OF D:

ED(1), 11, D(N), 1, D(N), D(N, D(N, Z) = d | Z)

ED(1), 11, D(N), 1, D(N), 1, D(N, Z) = d | Z)

ED(1), 11, D(N), 11, D(N), 22, D(N), 23 = d | Z)

EDECOMPOSITION OF D:

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

EDECOMPOSITION OF D:

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

EDECOMPOSITION OF D:

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23 = d | Z)

ED(1), 11, D(N), 23, D(N), 23 = d | Z)

ED(1) An inchucible Enverentition of the =

D, of grown is a set of matrices

M(S) acting on rector space GRAVE MULTIPLICATION THRITE OF V: Z proper sulsquees under the action Humber of conjugacy classes and the rumber of inequivalent inseducible representations of a finite group are equal. S, which I has no non-trivial of matrices forming D. I > V HAS 4 INEQUINALENT ITREP. THESE ARE: Z MULTITLICATION D(n) D(a) D(n) D(n) 1 a e c 8- < 1 0 C & Q 1 D(1) 7(e) To CONJUGACY CLASSES: FOR MATRICES LISTED: 251 -1 1 1 -13 = d(m) Sage 1 ca =cce = & West BONE 39,9-1=92/ig 8,9,192EV g dy = 9 2 g = g dy z allece by Very Sood THIS TABLE IS ISOMORPHIC TO
THE TABLE OF V PROVIDED
THE TABLE SO D IS INDEED A
REPRESENTATION OF V.

REPRESENTATION OF V. => 9/1=9/2=> =VERX g EV 15 CONJUGACY CLASSES OF V: £3, £3, £03, £3 Mon 151 - E Ni din it KONE ITS OWN CASS the interest a

$$D''(n) = \binom{n \circ}{0} \quad D''(n) = \binom{n \circ}{0} = \binom{n \circ}{$$

$$\mathcal{D}'''(A) = \begin{pmatrix} ac \\ ca \end{pmatrix} \qquad \mathcal{D}''(a) = \begin{pmatrix} ac \\ ca \end{pmatrix} \qquad \mathcal{D}'''(a) = \begin{pmatrix} ac \\ ca \end{pmatrix} \qquad \mathcal{D}'''(a) = \begin{pmatrix} ac \\ ca \end{pmatrix} \qquad \mathcal{D}'''(a) = \begin{pmatrix} ac \\ ca \end{pmatrix}$$

CHARACTER TABLE FORV:

ORTHOGONALITY RELATION: TO EACH OTHERS EVERY COL.) ARE OFTHOROWAC CONJUGACY CLASS (HERE:

$$((1 \ 1 \ 1 \ 1)) \left(\frac{1}{21}\right) = ((1 \ 1 \$$

$$= \left(\frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) = \left(\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) = \left(\frac{1}{2} - \frac{1}{2}$$

we were I view of 151 = E der. elli mig x der. ell i ex.

C (+xr-1) 3x1 + -1x1 + -1x1 + -1x1 02/W? ルンンー m4 51. M3:1

of v. suprisit.