Ordinary character table of $G \cong C3 \times D16$:

Trivial source character table of $G \cong C3$ x D16 at p =

p-subgroups of G up to conjugacy in G

			$1a 2a 2b \qquad 3a \qquad 4a 2c$		8a		6a	6b	3b	12a	6c	24a		8b	6d	6e	12b	6f	24b	24c	24d					
		χ_1	1 1	1	1	1 1 1 1 1 1			1	1	1		1	1	1	1	1	1	1	1						
		χ_2	1 -1	-1	1	1	1	1		-1	-1	1	1	1	1		1	-1	-1	1	1	1	1	1		
		χ_3	1 -1	1	1	1	1	-1		-1	1	1	1	1	-1		-1	-1	1	1	1	-1	-1	-1		
		χ_4	1 1	-1	1	1	1	-1		1	-1				-1		-1	1	-1	1	1	-1	-1	-1		
		χ_5	1 -1	-1	$E(3)^{2}$	1	1	1	1 $-E(3)^2 - E(3)^2 = E(3)^2$			E(3)	$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$		1	-E(3)	-E(3)	E(3)	E(3)	E(3)	$E(3)^{2}$	E(3)		
		χ_6	1 - 1	-1	E(3)	1	1	1		-E(3)	-E(3)	$E(3)^{2}$	E(3)		E(3)		1	$-E(3)^2$	$-E(3)^2$	$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$	E(3)	$E(3)^{2}$		
		χ_7	1 - 1	1	$E(3)^{2}$	1	1	-1		$-E(3)^2$	$E(3)^{2}$	E(3)	$E(3)^{2}$	$E(3)^{2}$	$-E(3)^2$		-1	-E(3)	E(3)	E(3)	E(3)	-E(3)	$-E(3)^2$	-E(3)		
		χ_8	1 -1	1	E(3)	1	1	-1		-E(3)	E(3)	$E(3)^{2}$	E(3)	E(3)	-E(3)		-1	$-E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$	$-E(3)^2$	-E(3)	$-E(3)^2$		
		χ_9	1 1	-1	$E(3)^{2}$	1	1	-1		$E(3)^{2}$	$-E(3)^2$	E(3)	$E(3)^2$ $E(3)$		$-E(3)^2$		-1	E(3)	-E(3)	E(3)	E(3)	-E(3)	$-E(3)^2$	-E(3)		
,		χ10	1 1	-1	E(3)	1	1	-1		E(3)	-E(3)	$E(3)^{2}$	E(3)	E(3)	-E(3)		-1	$E(3)^{2}$	$-E(3)^2$	$E(3)^{2}$	$E(3)^{2}$	$-E(3)^2$	-E(3)	$-E(3)^2$		
		χ_{11}	1 1	1	$E(3)^{2}$	1	1	1		$E(3)^{2}$	$E(3)^{2}$	E(3)	$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$		1	E(3)	E(3)	E(3)	E(3)	E(3)	$E(3)^{2}$	E(3)		
		χ_{12}	1 1	1	E(3)	1	1	1		E(3)	E(3)	$E(3)^{2}$	E(3)	E(3)	E(3) $E(3)$			$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$	$E(3)^{2}$	E(3)	$E(3)^{2}$		
		χ13	2 0	0	2	-2		0		0	0	2	-2	2	0		0	0	0	-2	2	0	0	0		
		χ_{14}	2 0		$2 * E(3)^2$			0		0			$2 * E(3)^2$	0		0	0	0	-2*E(3)	2 * E(3)	0	0	0			
		χ_{15}	2 0	0	2 * E(3)	-2		0		0	0	$2 * E(3)^2$	-2 * E(3)	2 * E(3)	0		$E(8) - E(8)^3$	0	0	$-2*E(3)^2$	$2 * E(3)^2$	0	0	0		
		χ_{16}	2 0	0	2			-E(8) + E		0	0	2	0	-2				0	0 0		-2 $-E(8) + E(8)^3$		$E(8) - E(8)^3$	$E(8) - E(8)^3$		
		χ17	2 0	0	2			E(8) - E(0	0	2	0	-2			$-E(8) + E(8)^3$	0) 0 0		-2	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$		
		X18	2 0		$2 * E(3)^2$			-E(8) + E	` '	0	0	2 * E(3)	0	-2*E(3)			$E(8) - E(8)^3$	0	0	0	-2 * E(3)	$-E(24)^{11} + E(24)^{17}$	$-E(24) + E(24)^{19}$	$E(24)^{11} - E(24)^{17}$		
$ \chi$		χ19	2 0		$2 * E(3)^2$	0		E(8) - E(0	0	2 * E(3)	0	-2*E(3)			$-E(8) + E(8)^3$	0	0	0	-2*E(3)	$E(24)^{11} - E(24)^{17}$	$E(24) - E(24)^{19}$	$-E(24)^{11} + E(24)^{1}$		
$ \lambda $		χ_{20}	2 0		2 * E(3)	0		-E(8) + E	\ /	0	0	$2 * E(3)^2$	0	-2*E(3)			$E(8) - E(8)^3$	0	0	0	$-2*E(3)^2$	$E(24) - E(24)^{19}$	$E(24)^{11} - E(24)^{17}$	$-E(24) + E(24)^{19}$		
		χ_{21}	2 0	0	2 * E(3)	0	-2	E(8) - E($(8)^3$	0	0	$2 * E(3)^2$	0	-2*E(3)	$E(24)^{11} - E(24)^{17}$.7	$-E(8) + E(8)^3$	0	0	0	$-2*E(3)^2$	$-E(24) + E(24)^{19}$	$-E(24)^{11} + E(24)^{17}$	$E(24) - E(24)^{19}$		
		1	3.7				3.7		_	3.7			A 7		3.7	_	3.7		3.7							
			N_5				N_6				$\frac{N_9}{N_9}$	+	$\frac{N_{10}}{P_{10}}$		N_1											
0.1		1	P_5	-	01 1		P_6	01	1	P_7			P_8	01 1		P_9		01	P_1							
$\frac{3b}{2}$		1 <i>a</i>	3a	,	$\frac{3b}{a}$		$\frac{3a}{a}$	3b	$\frac{1a}{a}$	3a	3b	1a		$\frac{3b}{a}$ $\frac{1a}{a}$		3a 3b 1a			$\frac{1a}{a}$ $\frac{3a}{a}$	3b						
0		0	0		$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$		0	0		0	0	0	0	0 0	0 0	0	U	0	0 0	0						
0			0		0 0		0	0	0	0	0	0	0	0 0	0 0	$\begin{vmatrix} 0 \\ 0 \end{vmatrix}$	0	0	0 0	0						
()		1 ()	()		0 + 0		()	()	1 ()	()	0	1 ()	()	0 + 0	0 0	\perp 0) ()	()	0 0	0						

Representatives $n_i \in N_i$	a $3a$	3b	1a 3a	3b	1a	3a	3b	1a 3a	a 3b	1a	3a	3b 1	1a $3a$	3b	1a	3a	3b	1a 3a	a 3	b 1a	$\frac{3a}{}$	3b	1a $3a$	a = 3b	1a 3	a = 3b
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 2 \cdot \chi_{16} + 2 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \begin{vmatrix} 1 - \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 2 \cdot \chi_{16} + 2 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \end{vmatrix} = 0$	6 16	16	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 (0
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 2 \cdot \chi_{18} + 2 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \end{vmatrix} $	6 16 * E(3)	$(8)^2 16 * E(3)$	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0 (0 0
$ \left[\begin{array}{cccccccccccccccccccccccccccccccccccc$				0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 (0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} = 0$	8 8	8	8 8	8	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 (0
$ \left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 * E(3)	$)^2 8 * E(3)$	8 8 * E($(3)^2 8 * E(3)$	3) 0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 () 0
$ \left[0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 2 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right] $	8*E(3)	$8*E(3)^2$	8 8*E	(3) $8 * E(3)$	$(3)^2 = 0$	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 (J 0
$\boxed{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \mid 3 \cdot \chi_{18} \mid 3 \cdot \chi_{18}$	8 8	8	0 0	0	2	2	2	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 () 0
$ \left[\begin{array}{cccccccccccccccccccccccccccccccccccc$			0 0	0	I	2 * E(3) 2	\ /	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 () 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	8 * E(3)	$)^2 8 * E(3)$	0 0	0	2 2	$2 * E(3)^2$	2 * E(3)	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0	<u>)</u> 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right = 0$	8 8	8	0 0	0	0	0	0	2 2	2	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 ($0 \mid$
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 1 \cdot \chi_{21} \right = 0 \cdot \left \ (1 - 1)^2 \right = 0 \cdot \left \ (1 -$			0 0	0	0	0			E(3) = 2 * E(3)	/	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	8 * E(3)	$)^2 8 * E(3)$	0 0	0	0	0	0	2 2*E	$E(3)^2 2*E($	3) 0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0) 0
$\left 1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right $	4	4	4 4	4	0	0	0	0 0	0	4	4	4	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0) 0
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	($4*E(3)^2$		()	/	0	0	0 0	0		4*E(3) 4:	\ /		0	0	0	0	0 0	0	0	0	0	0 0	0	0 0) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	4 * E(3)	$)^2 4 * E(3)$	4 4*E($(3)^2 4 * E(3)^2$	3) 0	0	0	0 0	0	4 4	$*E(3)^2$ 4	*E(3)	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0	J 0
$\left 1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right = 0$	4	4	4 4	4	2	2	2	0 0	0	0	0	0 :	2 2	2	0	0	0	0 0	0	0	0	0	0 0	0	0 0) 0
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 * E(3)	/ /		(3) $4*E(3)$	/	()	\ / /	0 0	0	0	0			(3) $2 * E(3)$	/	0	0	0 0	0	0	0	0	0 0	0	0 0) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	4 * E(3)	$(3)^2 4 * E(3)$	4 4*E($(3)^2 4 * E(3)^2$	3) 2 2	$2 * E(3)^2$	2 * E(3)	0 0	0	0	0	0	2 2*E($(3)^2 2 * E($	3) 0	0	0	0 0	0	0	0	0	0 0	0	0 0	<u>)</u> 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right $	4	4	4 4	4	0	0	0	2 2	2	0	0	0	0 0	0	2	2	2	0 0	0	0	0	0	0 0	0	0 0) 0
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	4*E(3)	/_ \ /		(3) 4 * E(3)	/	0			E(3) = 2 * E(3)	/	0	0	0 0	0		2*E(3) 2	\ /	0 0	0	0	0	0	0 0	0	0 0) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	4 * E(3)	$)^2 4 * E(3)$	4 4*E($(3)^2 4 * E(3)^2$	3) 0	0	0	2 2*E	$C(3)^2 2 * E($	3) 0	0	0	0 0	0	2	$2 * E(3)^2$	2*E(3)	0 0	0	0	0	0	0 0	0	0 0	J 0
$\left 1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right = 0$	2 2	2	2 2	2	2	2	2	0 0	0	2	2	2	2 2	2	0	0	0	2 2	2	$\begin{bmatrix} 2 & & \end{bmatrix} \begin{bmatrix} 0 & & & \\ & & & \end{bmatrix}$	0	0	0 0	0	0 0) 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$								0 0	0		$*E(3)^2$ 2	\ /	(/	/	0	I		$(3)^2 2 * I$	\ /	0	0	0 0	0	0 0) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	2 * E(3)	$2*E(3)^2$	2 2*E	(3) 2 * E(3)	$(3)^2 2 $	2 * E(3) 2	$2 * E(3)^2$	0 0	0	2 2	2 * E(3) = 2 * E(3)	$*E(3)^2$	2 2*E	(3) $2 * E(3)$	$(3)^2 \mid 0$	0	0	2 * E	E(3) 2*E	$(3)^2 \mid 0$	0	0	0 0	0	0 0	<u>)</u> 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right $	2 2	2	2 2	2	0	0	0	2 2	2 2	2	2	2	0 0	0	2	2	2	0 0	0) 2	2	2	0 0	0	0 0) 0
$ \left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 * E(3)	/	\	$(3)^2 2 * E(3)$	/	0	- 1		$E(3)^2 2*E($	/	()	\ /		0	I	$2 * E(3)^2$	\ /	0 0	0		$2 * E(3)^2$	(-)	0 0	0	0 0) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	2 * E(3)	$2*E(3)^2$	2 2*E	(3) 2 * E(3)	$(3)^2 = 0$	0	0	$2 ext{ } 2 * E$	E(3) 2*E(3)	$(3)^2 \mid 2 \mid 2$	2 * E(3) = 2 * E(3)	$*E(3)^2$	0 0	0	2	2 * E(3) 2	$2*E(3)^2$	0 0	0) 2	2 * E(3)	$2*E(3)^2$	0 0	0	0 0	<u>J</u> 0
$\left 1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right = 0$	2 2	2	2 2	2	0	0	0	0 0	0	2	2	2	0 0	0	0	0	0	0 0	0	0	0	0	2 2	2	0 0) 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$						0	0	0 0	0	l l	$*E(3)^2$ 2	\ /		0	0	0	0	0 0	0	0	0			$E(3)^2 2 * E(3)^2$	\ /) 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21}}$	2 * E(3)	$2*E(3)^2$	2 2*E	(3) 2 * E(3)	$(3)^2 = 0$	0	0	0 0	0	2 2	2 * E(3) = 2 * E(3)	$*E(3)^2$	0 0	0	0	0	0	0 0	0	0	0	0	$2 ext{ } 2 * E$	E(3) 2*E(3)	$3)^2 \mid 0 \mid 0$	J 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} \right = 0$	1 1	1	1 1	1	1	1	1	1 1	1	1	1	1	1 1	1	1	1	1	1 1	1	1 1	1	1	1 1	1	1 1	1 1
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$1 E(3)^2$	- (*)	1 E(3)) = (0)	. -	$E(3)^{2}$	E(3)	1 $E(3)$	- (*)	1	$E(3)^{2}$	E(3)	1 E(3)	E(3)	, -	$E(3)^{2}$	E(3)	1 $E(3)$	E(3) 1	$E(3)^{2}$	E(3)	1 $E(3)$	- / (- /	/ (-	$(3)^2 E(3)$
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} }$	1 E(3)	$E(3)^2$	1 E(3	$E(3)^2$	2 1	E(3)	$E(3)^2$	1 $E($	E(3)	2 1	E(3)	$E(3)^2$	1 E(3	E(3)	2 1	E(3)	$E(3)^2$	1 $E($	E(3)	$(3)^2 1$	E(3)	$E(3)^2$	1 $E(3)$	E(3)	$)^2 1 E($	(3) $E(3)^2$

 $P_2 = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48)]) \cong C2$

 $P_3 = Group([(1,3)(2,7)(4,11)(5,28)(6,13)(8,18)(9,35)(10,20)(12,17)(14,25)(15,41)(16,27)(19,24)(21,32)(22,45)(23,34)(26,31)(29,47)(30,40)(33,38)(36,48)(37,44)(39,42)(43,46)]) \cong \mathbb{C}_2$

 $P_7 = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48), (1,2)(3,19)(4,8)(5,24)(6,10)(7,12)(9,17)(11,33)(13,35)(14,21)(15,38)(16,23)(18,26)(20,28)(22,31)(25,43)(27,45)(29,46)(30,37)(32,39)(34,41)(36,42)(40,48)(44,47)] \\ \cong C_2 \times C_2 \times C_3 \times C$

 $P_8 = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(4,13)(25,40)(25,34)(25,40)(25,34)(25,40)(25,34)(25,34)(25,40)(25,34)(25,40)(25,34)(25,40)(25,34)(25,40)(25,34)(25,$

 $P_9 = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48), \\ (1,5,6,17)(2,38)(4,15,16,31)(7,19,20,35)(8,22,23,38)(11,26,27,41)(14,29,30,42)(18,33)(14,21)(15,38)(15,38)(15$ $P_{10} = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48), (1,5,6,17)(2,9,13,10,28,24,3)(4,15,16,31)(7,19,20,35)(8,22,23,38)(11,26,27,41)(14,29,30,42)(18,33,44,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(7,19,20,35)(8,22,23,38)(11,26,27,41)(14,29,30,42)(18,33,44,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(7,19,20,35)(8,22,23,38)(11,26,27,41)(14,29,30,42)(18,33,45)(21,36,37,46)(25,39,40,47)(23,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,9,10,24)(3,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(2,12,13,28)(4,15,16,31)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), (1,5,6,17)(14,43,29,44,30,48), ($

 $P_{11} = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,31)(29,47)(30,40)(33,38)(36,48)(37,44)(39,42)(43,48), (1,3)(2,7)(4,11)(5,28)(6,13)(8,24)(19,35)(19,24)(19,35)(19,24)(19,35)(19,24)(19,35)(19,24)(19,35)(19,24)(19,35)(19,24)(19,35)(19,24)(19,35)(19,35)(19,24)(19,35$

 $N_2 = Group([(1,2)(3,19)(4,8)(5,24)(6,10)(7,12)(9,10,14)(1,25)(15,41)(16,27)(12,38)(13,25)(13,24)(13,24)(13,25)(13,24)(13,25)(13,24)(13,25)(13,24)(13,25)(13,24)($ $N_3 = Group([(1,3)(2,7)(4,11)(5,28)(6,13)(8,18)(9,35)(10,20)(12,17)(14,25)(15,41)(16,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48)]) \cong C6 \times C2$

 $S_1 = S_2 = S_3 = S_3 = S_4 = S_2 = S_3 = S_3 = S_4 = S_2 = S_3 = S_3$

 $N_4 = Group([(1,2)(3,19)(4,8)(5,24)(6,10)(7,12)(9,17)(11,33)(13,35)(14,21)(15,38)(16,23)(18,26)(20,28)(22,31)(25,43)(27,45)(29,46)(30,37)(32,39)(34,41)(36,42)(40,48)(44,47), (1,4,14)(2,8,21)(3,11,25)(5,15,29)(6,16,30)(7,18,32)(9,24,36)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48)]) \cong C6 \times C2$

 $N_6 = Group([(1,3)(2,7)(4,11)(5,28)(6,13)(2,7)(4,11)(5,28)(6,13)(8,18)(9,35)(10,20)(12,37)(22,38)(25,40)(26,31)(29,47)(30,40)(33,38)(36,48)(37,44)(29,32)(22,45)(23,34)(26,31)(29,47)(30,40)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,31)(29,47)(30,40)(33,38)(36,48)(37,44)(29,32,33)(21,37)(22,38)(25,40)(26,31)(29,47)(30,40)(33,38)(36,48)(37,44)(39,42)(43,48)(17,41)(29,42)(32,43)(29,47)(30,40)(33,38)(36,48)(37,44)(39,42)(43,48)(17,41)(29,42)(32,43)(43,44)(29,42)(43,48)(17,41)(42,43,48)(19,35)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,33)(41,41)(42,43,48)(19,43)(41,41)(42,43,48)(19,43)(41,43)(42,43,48)(19,43)(42,43$

 $N_7 = Group([(1,2)(3,19)(4,8)(5,24)(6,10)(7,12)(9,17)(11,33)(13,35)(14,21)(15,38)(15,24)(21,37)(22,38)(25,40)(25,41)(15,38)(15,24)(21,37)(22,38)(25,40)(25,41)(15,38)(15,24)(21,37)(22,38)(25,40)(25,41)(25,43)(27,45)(29,42)(32,44)(33,45)(25,43)(27,45)(29,42)(32,44)(33,45)(25,43)(27,45)(29,42)(32,44)(33,45)(25,43)(27,45)(29,42)(32,44)(33,45)(25,43)(27,45)(29,42)(32,44)(33,45)(25,43)(27,45)(29,42)(32,44)(33,45)(25,43)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(32,44)(33,45)(27,45)(29,42)(29,42)(29$ $- G_{1}(1, 3)(2, 7)(1, 3)(3, 3)(1, 2, 3)(3, 4, 4)(2, 3,$

 $N_9 = Group([(1,2)(3,19)(4,8)(5,24)(6,13)(2,34)(2,34)(3,44)(3,45)(1,3)(2,34)(2,34)(3,44)(3,45)(1,3)(2,34)(2,34)(3,45)(2,34)(3,44)(3,45)(3,44)(3,45)(3,44)(3,45)(3,45)(3,44)(3,45)($