





Table C.21. Orbits in  $E_8$  (I)

$A_0$	1	120	3780	1120	37800	40320	7560	113400	302400	67200	151200	24192	3150	604800	403200	453600	302400	241920	40320	37800	7560	604800	604800	362880	151200	241920	120960	34560
$A_1$	1	63	28	945	1344	378	3780	12600	3360	8820	2016	315	30240	23520	30240	22680	22176	5040	4095	1260	40320	50400	36288	15120	26208	16128	6048	
$A_1^2$		1	0	30	32	6	180	560	160	360	96	15	1920	1600	1920	1680	1600	480	300	140	3520	4800	3456	1680	2880	1920	960	
$A_2$			1	0	36	27	0	270	120	540	216	45	540	720	1620	1350	2160	720	540	270	1080	2700	3240	1080	2376	2160	1080	
$A_1^3$				1	0	0	12	24	0	12	0	1	160	96	144	72	96	16	30	12	384	480	384	144	288	192	96	
$A_1 \times A_2$					1	0	0	15	10	15	6	0	45	80	90	135	120	60	15	15	150	345	270	180	300	240	180	
$A_3$						1	0	0	0	20	16	5	0	0	60	40	160	80	60	50	0	80	240	40	160	240	160	
$A_1^4$							1	0	0	0	0	0	16	0	12	0	0	0	4	0	48	48	48	12	0	16	0	
$A_1^2 \times A_2$								1	0	0	0	0	6	8	6	3	8	0	0	1	28	42	36	12	36	24	12	
$A_2^2$									1	0	0	0	0	6	0	18	0	6	0	0	9	36	0	36	36	18	36	
$A_1 \times A_3$										1	0	0	0	0	6	6	8	4	3	1	0	16	24	12	24	24	24	
$A_4$											1	0	0	0	0	0	10	10	0	5	0	0	15	0	10	30	30	
$D_4$												1	0	0	0	0	0	0	12	12	0	0	0	0	0	0	0	
$A_1^3 \times A_2$													1	0	0	0	0	0	0	0	6	3	6	0	0	0	0	
$A_1 \times A_2^2$														1	0	0	0	0	0	0	3	6	0	0	6	3	0	
$A_1^2 \times A_3$															1	0	0	0	0	0	0	4	4	2	0	4	0	
$A_2 \times A_3$																1	0	0	0	0	0	2	0	4	4	0	4	
$A_1 \times A_4$																	1	0	0	0	0	0	3	0	3	3	3	
$A_5$																		1	0	0	0	0	0	0	0	0	0	
$A_1 \times D_4$																			1	0	0	0	0	0	0	0	0	
$D_5$																				1	0	0	0	0	0	0	0	
$A_1^2 \times A_2^2$																					1	0	0	0	0	0	0	
$A_1 \times A_2 \times A_3$																						1	0	0	0	0	0	
$A_1^2 \times A_4$																							1	0	0	0	0	
$A_3^2$																								1	0	0	0	
$A_2 \times A_4$																									1	0	0	
$A_1 \times A_5$																										1	0	
$A_6$																											1	
$A_2 \times D_4$																												
$A_1 \times D_5$																												
$D_6$																												
$E_6$																												
$A_1 \times A_2 \times A_4$																												
$A_3 \times A_4$																												
$A_1 \times A_6$																												
$A_7$																												
$A_2 \times D_5$																												
$D_7$																												
$A_1 \times E_6$																												
$E_7$																												
$E_8$																												

Table C.22. Orbits in  $E_8$  (II)

Table C.22 is a continuation of the data from Table C.21, containing the same 36 rows of orbit labels and 36 columns of numerical values. The data is identical to the right half of Table C.21.

