HN

A_{12}	1140000	1a + 133ab + 760a + 3344a + 8910a + 16929a + 35112ab + 267520a + 365750a + 406296a	12

Character Numbers: [1, 2, 3, 4, 5, 8, 10, 11, 12, 18, 20, 23]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}
χ_1	1	462	2520	2520	10395	16632	30800	69300	166320	166320	311850	362880
χ_2	1	-198	$360r5$	$-360r5$	2475	792	4400	-9900	$-7920r5$	$7920r5$	-14850	17280
χ_3	1	-198	$-360r5$	$360r5$	2475	792	4400	-9900	$7920r5$	$-7920r5$	-14850	17280
χ_4	1	132	-540	-540	1485	-1188	1100	4950	-5940	-5940	0	6480
χ_5	1	12	120	120	495	1332	-2200	300	-1080	-1080	-900	2880
χ_6	1	82	240	240	515	-88	400	900	640	640	-1650	-1920
χ_7	1	62	-120	-120	155	632	400	-300	80	80	1050	-1920
χ_8	1	-48	$60r5$	$-60r5$	225	-108	-100	-150	$180r5$	$-180r5$	900	-720
χ_9	1	-48	$-60r5$	$60r5$	225	-108	-100	-150	$-180r5$	$180r5$	900	-720
χ_{10}	1	12	30	30	-45	-18	50	-150	-270	-270	450	180
χ_{11}	1	-18	0	0	-45	72	80	180	0	0	-270	0
χ_{12}	1	12	-20	-20	5	-68	-100	-50	180	180	-200	80

Ramanujan Graphs: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12], [2, 3, 4, 5, 6, 7, 9, 11, 12], [2, 3, 4, 5, 6,

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