$Fi_{22}.2$

$2^6 : S_6(2)$ $\leq 2^7 : S_6(2)$	1389960	$1a^{\pm} + 429a^{\pm} + 1430a^{\pm} + 3080a^{\pm} + 13650a^{\pm}$ $+ 30030a^{\pm} + 45045a^{\pm} + 75075a^{\pm} + 205920a^{\pm}$ $+ 320320a^{\pm}$	20

Character Numbers: [1, 2, 5, 6, 9, 10, 13, 14, 17, 18, 19, 20, 25, 26, 33, 34, 46, 47, 52, 53]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}
χ_1	1	1	135	135	1260	1260	2304	2304	8640	8640
χ_2	1	-1	135	-135	-1260	1260	2304	-2304	8640	-8640
χ_3	1680	1680	1260	1260	8960	8960	-10080	-1680	-1680	-10080
χ_4	-1680	1680	-1260	1260	8960	-8960	-10080	-1680	1680	10080
χ_5	1008	1008	-2268	-2268	-1792	-1792	-3024	6048	6048	-3024
χ_6	-1008	1008	2268	-2268	-1792	1792	-3024	6048	-6048	3024
χ_7	96	96	1368	1368	-1408	-1408	-1440	120	120	-1440
χ_8	-96	96	-1368	1368	-1408	1408	-1440	120	-120	1440
χ_9	312	312	-576	-576	-256	-256	1152	-960	-960	1152
χ_{10}	-312	312	576	-576	-256	256	1152	-960	960	-1152
χ_{11}	240	240	180	180	-256	-256	720	-672	-672	720
χ_{12}	-240	240	-180	180	-256	256	720	-672	672	-720
χ_{13}	-144	-144	-432	-432	512	512	0	0	0	0
χ_{14}	144	-144	432	-432	512	-512	0	0	0	0
χ_{15}	-48	-48	-36	-36	-256	-256	288	48	48	288
χ_{16}	48	-48	36	-36	-256	256	288	48	-48	-288
χ_{17}	0	0	0	0	224	224	0	-252	-252	0
χ_{18}	0	0	0	0	224	-224	0	-252	252	0
χ_{19}	-12	-12	72	72	-112	-112	-144	228	228	-144
χ_{20}	12	-12	-72	72	-112	112	-144	228	-228	144

	S_{11}	S_{12}	S_{13}	S_{14}	S_{15}	S_{16}	S_{17}	S_{18}	S_{19}	S_{20}
χ_1	10080	10080	45360	45360	143360	143360	241920	241920	241920	241920
χ_2	−10080	10080	−45360	45360	143360	−143360	241920	241920	−241920	−241920
χ_3	1680	1680	1260	1260	8960	8960	−10080	−1680	−1680	−10080
χ_4	−1680	1680	−1260	1260	8960	−8960	−10080	−1680	1680	10080
χ_5	1008	1008	−2268	−2268	−1792	−1792	−3024	6048	6048	−3024
χ_6	−1008	1008	2268	−2268	−1792	1792	−3024	6048	−6048	3024
χ_7	96	96	1368	1368	−1408	−1408	−1440	120	120	−1440
χ_8	−96	96	−1368	1368	−1408	1408	−1440	120	−120	1440
χ_9	312	312	−576	−576	−256	−256	1152	−960	−960	1152
χ_{10}	−312	312	576	−576	−256	256	1152	−960	960	−1152
χ_{11}	240	240	180	180	−256	−256	720	−672	−672	720
χ_{12}	−240	240	−180	180	−256	256	720	−672	672	−720
χ_{13}	−144	−144	−432	−432	512	512	0	0	0	0
χ_{14}	144	−144	432	−432	512	−512	0	0	0	0
χ_{15}	−48	−48	−36	−36	−256	−256	288	48	48	288
χ_{16}	48	−48	36	−36	−256	256	288	48	−48	−288
χ_{17}	0	0	0	0	224	224	0	−252	−252	0
χ_{18}	0	0	0	0	224	−224	0	−252	252	0
χ_{19}	−12	−12	72	72	−112	−112	−144	228	228	−144
χ_{20}	12	−12	−72	72	−112	112	−144	228	−228	144

Ramanujan Graphs: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20] , [2, 3, 4, 5, 6, 7, 8, 11, 12, 13,

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