Co_2

$U_5(2) \leq U_6(2).2$	3091200	1a + 23a + 253a + 275a + 1771a + 2024a + 2277a + 4025a + 23000a + 31625ab + 37422a + 63250a + 212520a + 284625a + 312984a + 398475b + 462000a + 558900a + 664125c	20

Character Numbers: [1, 2, 3, 4, 5, 6, 7, 8, 15, 16, 17, 19, 21, 28, 35, 36, 39, 42, 44, 48]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}
χ_1	14256	14256	16896	142560	142560	253440	253440	427680	427680	1368576
χ_2	4752	−4752	0	−47520	47520	0	0	142560	−142560	0
χ_3	−432	432	0	−12960	12960	−30720	30720	−12960	1296 0	0
χ_4	1008	1008	−768	10080	10080	−11520	−11520	30240	30240	−62208
χ_5	− 1296	−1296	−1536	4320	4320	7680	7680	−4320	−4320	− 13824
χ_6	− 144	−144	96	−1440	−1440	1440	1440	−4320	−4320	7776
χ_7	−48	48	0	480	−480	0	0	−1440	1440	0
χ_8	432	432	768	4320	4320	−3840	−3840	−4320	−4320	6912
χ_9	504	504	576	−1008	−1008	576	576	0	0	−1728
χ_{10}	−432	432	0	−864	864	1536	−1536	−864	864	0
χ_{11}	360	360	−576	576	576	−576	−576	−1296	−1296	1728
χ_{12}	368	−368	0	−960	960	1280	−1280	−960	960	0
χ_{13}	216	−216	0	864	−864	0	0	432	−432	0
χ_{14}	14 4	144	−96	0	0	480	480	0	0	−864
χ_{15}	120	−120	0	−192	192	0	0	−432	432	0
χ_{16}	−96	−96	64	−80	−80	−320	−320	80	80	576
χ_{17}	−24	−2 4	192	192	192	192	192	−144	−144	−576
χ_{18}	0	0	0	144	−144	−192	192	144	−144	0
χ_{19}	−24	−2 4	−128	−128	−128	−128	−128	176	176	384
χ_{20}	−72	7 2	0	0	0	0	0	144	−144	0

	S_{11}	S_{12}	S_{13}	S_{14}	S_{15}	S_{16}	S_{17}	S_{18}	S_{19}	S_{20}
χ_1	14256	14256	16896	142560	142560	253440	253440	42768 0	427680	1368576
χ_2	4752	−4752	0	−47520	47520	0	0	142560	−142560	0
χ_3	−432	432	0	−12960	12960	−30720	30720	−12960	1296 0	0
χ_4	1 008	1008	−768	10080	10080	−11520	−11520	30240	30240	−62208
χ_5	− 1296	−1296	−1536	4320	4320	7680	7680	−4320	−4320	− 13824
χ_6	− 144	−144	96	−1440	−1440	1440	1440	−4320	−4320	7776
χ_7	−48	48	0	480	−480	0	0	−1440	1440	0
χ_8	4 32	432	768	4320	4320	−3840	−3840	−4320	−4320	6912
χ_9	504	5 04	576	−1008	−1008	576	576	0	0	−1728
χ_{10}	−432	432	0	−864	864	1536	−1536	−864	864	0
χ_{11}	360	360	−576	576	576	−576	−576	−1296	−1296	1728
χ_{12}	3 68	−368	0	−960	960	1280	−1280	−960	960	0
χ_{13}	216	−216	0	864	−864	0	0	432	−432	0
χ_{14}	14 4	144	−96	0	0	480	480	0	0	−864
χ_{15}	120	−120	0	−192	192	0	0	−432	432	0
χ_{16}	−96	−96	64	−80	−80	−320	−320	80	80	576
χ_{17}	−24	−2 4	192	192	192	192	192	−144	−144	−576
χ_{18}	0	0	0	144	−144	−192	192	144	−144	0
χ_{19}	−24	−2 4	−128	−128	−128	−128	−128	176	176	384
χ_{20}	−72	7 2	0	0	0	0	0	144	−144	0

Ramanujan Graphs: [1, 2], [1, 2, 3, 4], [1, 2, 3, 4, 5, 6], [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

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