Fi_{23}

$2^{11}.M_{23}$	195747435	1a + 782a + 3588a + 30888a + 60996a + 274482a + 789360a + 812889a + 1677390a + 1951872a + 5533110a + 7468032a + 21348600a + 28464800a + 29354325a + 97976320a	16

Character Numbers: [1, 2, 3, 6, 7, 10, 13, 14, 19, 20, 24, 2 6, 38, 41, 42, 60]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}	S_{13}	S_{14}	S_{15}	S_{16}
χ_1	1	506	23552	28336	113344	129536	971520	1036288	1813504	4533760	8290304	21762048	31088640	31653888	36270080	58032128
χ_2	1	209	−208	7546	5236	29744	116160	85888	250096	43120	−377344	−990528	865920	1462272	−985600	−512512
χ_3	1	−187	−2080	4774	10780	−10648	−62040	44704	61600	−206360	154880	−192192	770880	−473088	234080	−335104
χ_4	1	149	1112	3346	4816	9584	35160	−8192	62776	−7280	25856	67872	−98880	−150528	56000	−1792
χ_5	1	−43	1664	1246	−4844	−3088	2760	23392	3136	−2240	2816	61824	27840	−86016	−209440	180992
χ_6	1	41	−688	826	−2996	3536	−6960	9088	784	−7280	18944	49728	−21120	43008	−4480	−82432
χ_7	1	−85	−40	1204	784	−2080	−6960	−992	7336	7840	−16480	13440	−12480	6720	5600	−3808
χ_8	1	77	464	646	2116	−568	2760	4192	−6704	17560	8576	5664	13440	−5376	−3040	−39808
χ_9	1	−61	−640	364	1456	−64	−480	−512	−896	−2240	16640	−10752	−15360	10752	−17920	19712
χ_{10}	1	23	−580	124	−620	−1108	2760	5704	100	−260	−3520	−11832	−15720	−3648	22880	5696
χ_{11}	1	53	−208	526	−380	728	−840	−1472	−2000	1000	−2944	−5856	4800	−5376	320	11648
χ_{12}	1	11	422	−104	124	476	−2100	1468	814	1000	1844	−9132	−7800	168	4940	7868
χ_{13}	1	−31	176	178	−404	−136	816	−560	−656	−584	1664	−2112	480	1536	2576	−2944
χ_{14}	1	−25	−28	−32	304	368	168	640	−932	−944	−3232	2208	1056	−1344	800	992
χ_{15}	1	29	80	22	196	−280	168	−224	−176	−2888	−640	2208	−1536	3840	−928	128
χ_{16}	1	2	−55	−86	−74	−37	−75	−197	499	1000	575	264	975	−939	−955	−898

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