

# Resultados Detalhados das Heurísticas Gulosas — Grafos Bipartidos ( $a \leq 100, b \leq 100$ )

Experimentos de Coloração Harmônica

November 5, 2025

Parâmetros do Grafo			Grau Máximo		Grau Mínimo		Saturação	
Instância (a,b,p,v)	N	M	$\chi_h$	Tempo (s)	$\chi_h$	Tempo (s)	$\chi_h$	Tempo (s)
a100_b100_p1%_v1	200	92	62	0.8378	55	0.0108	70	0.4112
a100_b100_p1%_v2	200	103	69	0.0027	50	0.0029	76	0.0013
a100_b100_p1%_v3	200	100	54	0.0023	52	0.0029	62	0.0015
a100_b100_p1%_v4	200	78	55	0.0021	45	0.0020	59	0.0013
a100_b100_p1%_v5	200	95	59	0.0022	49	0.0040	70	0.0010
a100_b100_p3%_v1	200	306	66	0.0055	76	0.0076	112	0.0025
a100_b100_p3%_v2	200	317	57	0.0061	70	0.0061	108	0.0022
a100_b100_p3%_v3	200	331	68	0.0073	72	0.0078	117	0.0027
a100_b100_p3%_v4	200	289	52	0.0051	70	0.0077	105	0.0019
a100_b100_p3%_v5	200	294	57	0.0052	70	0.0077	95	0.0018
a100_b100_p5%_v1	200	497	48	0.0088	72	0.0107	110	0.0018
a100_b100_p5%_v2	200	488	51	0.0078	74	0.0092	112	0.0025
a100_b100_p5%_v3	200	529	57	0.0090	77	0.0160	129	0.0045
a100_b100_p5%_v4	200	483	57	0.0070	74	0.0125	113	0.0034
a100_b100_p5%_v5	200	479	48	0.0085	65	0.0096	107	0.0043
a100_b100_p10%_v1	200	971	68	0.0152	78	0.0155	141	0.0041
a100_b100_p10%_v2	200	922	61	0.0213	73	0.0217	127	0.0070
a100_b100_p10%_v3	200	1030	67	0.0158	83	0.0172	127	0.0064
a100_b100_p10%_v4	200	992	67	0.0147	79	0.0156	136	0.0031
a100_b100_p10%_v5	200	1020	70	0.0161	82	0.0158	123	0.0038
a100_b100_p20%_v1	200	1973	106	0.0412	124	0.0476	137	0.0038
a100_b100_p20%_v2	200	2003	106	0.0366	125	0.0425	119	0.0042
a100_b100_p20%_v3	200	2018	114	0.0384	122	0.0553	153	0.0040
a100_b100_p20%_v4	200	1982	106	0.0379	120	0.0371	127	0.0038
a100_b100_p20%_v5	200	1952	109	0.0403	120	0.0506	112	0.0123
a100_b100_p30%_v1	200	2897	151	0.0978	148	0.0874	105	0.0033
a100_b100_p30%_v2	200	3016	155	0.1173	150	0.0822	156	0.0069
a100_b100_p30%_v3	200	3048	152	0.1065	151	0.0892	140	0.0041
a100_b100_p30%_v4	200	3080	154	0.1182	151	0.0936	139	0.0051
a100_b100_p30%_v5	200	3024	153	0.1193	148	0.0989	136	0.0064
a100_b100_p40%_v1	200	3953	172	0.1718	166	0.1760	185	0.0078
a100_b100_p40%_v2	200	4048	173	0.1843	167	0.1595	166	0.0058
a100_b100_p40%_v3	200	4017	171	0.1802	166	0.1732	135	0.0038
a100_b100_p40%_v4	200	3932	171	0.1653	166	0.1711	137	0.0038

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Instância (a,b,p,v)	N	M	$\chi_h$	Tempo (s)	$\chi_h$	Tempo (s)	$\chi_h$	Tempo (s)
a100_b100_p40%_v5	200	4015	173	0.1792	166	0.1737	130	0.0028
a100_b100_p50%_v1	200	5022	180	0.2595	176	0.2297	101	0.0030
a100_b100_p50%_v2	200	5019	183	0.2837	176	0.2683	164	0.0114
a100_b100_p50%_v3	200	5002	182	0.2526	178	0.2615	157	0.0070
a100_b100_p50%_v4	200	4993	181	0.2736	177	0.2622	185	0.0071
a100_b100_p50%_v5	200	5020	182	0.2763	176	0.2468	159	0.0109
a100_b100_p60%_v1	200	6000	188	0.3777	183	0.4571	166	0.0065
a100_b100_p60%_v2	200	5978	186	0.3886	185	0.3238	188	0.0090
a100_b100_p60%_v3	200	5912	187	0.3304	184	0.3036	156	0.0070
a100_b100_p60%_v4	200	6013	186	0.2935	183	0.2993	158	0.0066
a100_b100_p60%_v5	200	6048	187	0.3498	184	0.3120	174	0.0059
a100_b100_p70%_v1	200	7039	190	0.2960	188	0.3148	101	0.0012
a100_b100_p70%_v2	200	7044	193	0.3401	190	0.3363	180	0.0045
a100_b100_p70%_v3	200	6983	191	0.3788	189	0.3586	170	0.0041
a100_b100_p70%_v4	200	7053	190	0.3769	189	0.3156	101	0.0012
a100_b100_p70%_v5	200	7036	192	0.3380	188	0.3076	182	0.0065
a100_b100_p80%_v1	200	8007	195	0.2715	191	0.2780	101	0.0023
a100_b100_p80%_v2	200	7988	195	0.2703	192	0.2847	101	0.0022
a100_b100_p80%_v3	200	8012	195	0.2890	192	0.2643	190	0.0090
a100_b100_p80%_v4	200	7973	195	0.2846	192	0.2873	101	0.0031
a100_b100_p80%_v5	200	7992	195	0.2910	192	0.2657	101	0.0015
a100_b100_p90%_v1	200	9021	197	0.2867	195	0.2063	197	0.0133
a100_b100_p90%_v2	200	8994	196	0.2397	195	0.2290	197	0.0124
a100_b100_p90%_v3	200	9045	198	0.2538	194	0.2509	194	0.0090
a100_b100_p90%_v4	200	8972	196	0.2194	196	0.2493	101	0.0008
a100_b100_p90%_v5	200	9008	197	0.2188	195	0.2221	101	0.0014