## **Table of Contents**

1. Scope and Notation	3
2. Classical Two Color Ramsey Numbers	4
2.1 Bounds on $R(k, l)$ for $k \le 10, l \le 15$	4
2.2 Bounds on $R(k, l)$ for $l \ge 15$	6
2.3 Other results on $R(k, l)$	7
3. Two Colors - Most Studied Cases	9
3.1 Dropping one edge from complete graph	9
3.2 Complete bipartite graphs	11
3.3 Cycles, cycles versus complete graphs	14
3.4 Cycles versus wheels	16
3.5 Cycles versus books	17
4. General Graph Numbers in Two Colors	18
4.1 Paths	18
4.2 Wheels	18
4.3 Books	19
4.4 Trees and forests	19
4.5 Stars, stars versus other graphs	20
4.6 Fans, fans versus other graphs	21
4.7 Paths versus other graphs	21
4.8 Triangle versus other graphs	21
4.9 Cycles versus other graphs	22
4.10 Wheels versus other graphs	23
4.11 Books versus other graphs	23
4.12 Trees and forests versus other graphs	24
4.13 Cases for $n(G), n(H) \leq 5$	24
4.14 Mixed cases	25
4.15 Multiple copies of graphs, disconnected graphs	26
4.16 General results for sparse graphs	26
4.17 Other general two color results	27
5. Multicolor Ramsey Numbers	29
5.1 Bounds for classical numbers	29
5.2 General results for complete graphs	31
5.3 Cycles	32
5.4 Paths, paths versus other graphs	35
5.5 Special cases	36
5.6 Other general results	36
6. Hypergraph Numbers	38
7. Cumulative Data and Surveys	40
7.1 Cumulative data for two colors	40
7.2 Cumulative data for three colors	41
7.3 Surveys	41
8. Concluding Remarks	42
References	44-72