## An Overview of Domination in Graphs of Minimum Degree 2

We aim to give a brief overview of domination in simle graphs. A set D of vertices is dominating in a graph G if every vertex of  $G \setminus D$  is adjacent to a vertex in D. An arbitrary set A of vertices in a graph G dominates itself and the vertices which have neighbors in A. The domination number,  $\gamma(G)$ , of a graph G is the minimum size of a dominating set in G. We will examine some fundamental results in the subject of domination, especially Reed's where he proved that the domination number,  $\gamma(G)$ , of every *n*-vertex graph G with minimum degree at least 3 is at most 3n/8 and conjectured that  $\gamma(H) \leq \lceil n/3 \rceil$  for every connected 3-regular (cubic) *n*-vertex graph H. We will show that the conjecture is false and that the first bound could be improved.