

Skolem Number of Lattice Type Graphs

Braxton Carrigan*, Max Martone - Southern Connecticut State University

A proper Skolem labelling of a graph G is a function assigning a positive integer to each vertex of G such that any two vertices assigned the same integer are that distance apart in the graph. The Skolem number of a graph is smallest number n such that there exists a proper Skolem labelling only using the positive integers less than or equal to n . We will provide the Skolem number for many families of subgraphs of different lattice graphs, such as square, triangular, hexagonal, and Kagome.