

On (t, k) -geodetic sets

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Abstract

In this study we are going to give new (t, k) -geodetic set definition. This is a refinement of the geodetic set definition given previous works by G. Chartrand, F. Harary, and P. Zhang. With this new definition we obtain more information about the graph. We also give a relationship between the (t, k) -geodetic set and the integrity of a graph. By using a (t, k) -geodetic set we give a new proof for the upper bound of integrity of trees and unicycle graphs.