



NUMBER OF SPANNING TREES FOR SPLITTING OF SOME GRAPHS

S. N. Daoud

Received December 16, 2017

Abstract

In mathematics, one always tries to get new structures from given ones. This also applies to the realm of graphs, where one can generate many new graphs from a given set of graphs. In this paper, we derive simple formulas of the complexity, number of spanning trees of splitting of some graphs, using linear algebra, Chebyshev polynomials and matrix analysis techniques.

Keywords and phrases: complexity of graphs, number of spanning trees, splitting graphs, Chebyshev polynomials.

Pioneer Journal of
Algebra, Number
Theory and its
Applications



Pioneer Scientific
Publisher