

Year: 2015

Vol.: 86

Fasc.: 3-4

Title: On the planar, outer planar, cut vertices and end-regular comaximal graph of lattices

Author(s): Mojgan Afkhami, Kazem Khashyarmanesh and Faeze Shahsavar

In this paper, we determine the cut vertices in the comaximal graphs of lattices and study the lattices with end-regular comaximal graphs. Also, we investigate the comaximal graph of the product of two lattices. In particular, we determine all lattices with planar and outerplanar comaximal graphs.

Address:

Mojgan Afkhami
Department of Mathematics
University of Neyshabur
P.O. Box 91136-899, Neyshabur
Iran

Address:

Kazem Khashyarmanesh
Department of Pure Mathematics
International Campus of
Ferdowsi University of Mashhad
P.O. Box 1159-91775, Mashhad
Iran

Address:

Faeze Shahsavar
Department of Pure Mathematics
International Campus of
Ferdowsi University of Mashhad
P.O. Box 1159-91775, Mashhad
Iran