

## **Energy of Certain Planar Graphs**

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### **Abstract**

The energy  $E(G)$  of a graph  $G$  is the sum of the absolute values of the eigenvalues of  $G$  of its adjacency matrix. The Laplacian energy  $LE(G)$  of a graph  $G$  is the sum of absolute values of its Laplacian eigenvalues. In this paper, we provide a MATLAB program, to calculate the energy and Laplacian energy of certain planar graphs namely  $n$ -regular caterpillar and Necklace.

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