## (a,d)-antimagic labelings

The weight w(v) of a vertex  $v \in VF(G)$  under a edge labeling  $g: E \to \{1, 2, ..., |E|\}$  is the sum of the labels of edges incident to vertex v.

A connected graph G=(V,E) is said to be (a,d)-antimagic (K. Wagner and R. Bodendiek, 1993) if there exist positive integers a,d and bijection  $g:E(G)\to \{1,2,...,|E(G)|\}$  such that the induced mapping  $\delta_g:V(G)\to W$  is also a bijection, where  $W=\{w(v):v\in V(G)\}=\{a,a+d,...,a+(|V(G)|-1)d\}$  is the set of weights of vertices.

The weight w(f) of a face  $f \in F(G)$  under a edge labeling  $g : E \to \{1, 2, ..., |E|\}$  is the sum of the labels of edges surrounding that face.

A connected plane graph G=(V,E,F) is said to be (a,d)-face antimagic if there exist positive integers  $a,\ d$  and bijection  $g:E(G)\to\{1,2,...,|E(G)|\}$  such that the induced mapping  $\psi_g:F(G)\to W$  is also a bijection, where  $W=\{w(f):f\in F(G)\}=\{a,a+d,...,a+(|F(G)|-1)d\}$  is the set of weights of faces.

The following papers deal with (a, d)-antimagic or (a, d)-face antimagic labelings.

- Bača, M. Miller, M.: Valuations of a certain class of convex polytopes, **JCMCC 43** (2002), 207-218.
- Bača, M. Lin, Y. Miller, M.: Valuations of plane quartic graphs, **JCMCC** 41 (2002), 209-221.
- Bača, M. Miller, M.: Antimagic face labeling of convex polytopes based on biprisms, **JCMCC 36** (2001), 229-236.
- Miller, M. Bača, M. Lin, Y.: On two conjectures concerning (a, d)-antimagic labelings of antiprisms, **JCMCC 37** (2001), 251-254.
- Bača, M.: Special face numbering of plane quartic graphs, Ars Combinatoria 57 (2000), 285-292.
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- Bača, M. MacDougall, J.A. Miller, M. Slamin Wallis, W.D.: Survey of certain valuations of graphs, Discussiones Math. Graph Theory 20 (2000), 219-229.
- Bača, M.: Consecutive-magic labeling of generalized Petersen graphs, Utilitas Mathematica 58 (2000), 237-241.
- Bača, M.: Face antimagic labelings of convex polytopes, Utilitas Mathematica 55 (1999), 221-226.
- $\bullet$  Bača, M. Holländer, I.: On (a,d)-antimagic prisms, Ars Combinatoria 48 (1998), 297-306.
- Bača, M. Holländer, I.: On (a,b)-consecutive Petersen graphs, Acta Math. Appl. Sinica 14 (1998), 265-270.