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Euler's polyhedron theorem

Canonical name EulersPolyhedronTheorem

Date of creation 2013-03-22 12:25:28 Last modified on 2013-03-22 12:25:28 Owner Mathprof (13753) Last modified by Mathprof (13753)

Numerical id 6

Author Mathprof (13753)

Entry type Theorem
Classification msc 05C99
Synonym Euler's formula

Related topic Graph

Related topic GraphTheory
Related topic PoincareFormula

Related topic Polytope

Theorem 1 () If a connected plane graph has n vertices, m edges, and f faces, then

$$n - m + f = 2.$$