

## planetmath.org

Math for the people, by the people.

## Cartan's criterion

Canonical name CartansCriterion
Date of creation 2013-03-22 13:15:50
Last modified on 2013-03-22 13:15:50

Owner bwebste (988) Last modified by bwebste (988)

Numerical id 5

Author bwebste (988) Entry type Theorem Classification msc 17B20 A Lie algebra  ${\mathfrak g}$  is semi-simple if and only if its Killing form  $B_{\mathfrak g}$  is nondegenerate.