

Title: Pythagorean triangles

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Abstract: The thesis considers usable problems concerning pythagorean triangles. In the first part, there is described an expression of a parametrization of pythagorean triangles. Next parts are dedicated to an expression of properties of edges and radii of the incircle and excircles. Next chapters describe Heronian triangles and their decomposition to pythagorean triangles, as a way to solution of the problem of a Heronian triangle where all heights are integer numbers. In addition are given some examples of triangles for school practice.

Keywords: Pythagorean triangles, Heronian triangles, incircle and excircles, triangle heights as integer numbers