

ZMATH 2012f.00716

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The isosceles trapezoid and its dissecting similar triangles.

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Summary: Isosceles trapezoids are dissected into three similar triangles and rearranged to form two additional isosceles trapezoids. Moreover, triangle centers, one from each similar triangle, form the vertices of a centric triangle which has special properties. For example, the centroidal triangles are congruent to each other and have an area one-ninth of the area of the trapezoids; whereas, the circumcentric triangles are not congruent, but still have equal areas.

Classification: G60

Keywords: dissection; area; isosceles trapezoids

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