

ZMATH 2016e.00657

Murty, Gurajada Suryanarayana

A note on theorem of unequal pair of lunes.

J. Indian Acad. Math. 37, No. 1, 13-18 (2015).

The paper proves the following result: Consider a circle and a right triangle ABC such that AB is a diameter of the circle. Draw semicircles with diameters AC and BC . Each of this semicircles, together with the original circle determines a lune. The sum of the areas of these lunes equals the area of the triangle ABC . The result is elementary and not very surprising, Nevertheless it can be a nice exercise for secondary school students and it is suitable to be worked out with GeoGebra. *Antonio M. Oller (Zaragoza)*

Classification: G40 G30

Keywords: area; lune; mathematical modeling