

ZMATH 2014e.00468

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Counting hexagons in a triangle of triangles.

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Based on the initial figure of a regular triangle consisting of equilateral triangles, the article contains an investigation where the task is to find all regular hexagons in such triangles when the number of equilateral-triangle components increases, i.e. when the number of rows of the initial figure increases.

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Classification: F60 H20 I30

Keywords: triangular numbers; regular hexagons; equilateral triangles; figurate numbers; series; sum of squares