Define an n-triangle to be a triangle with integer coordinates and perimeter in $[n, n+1)$.

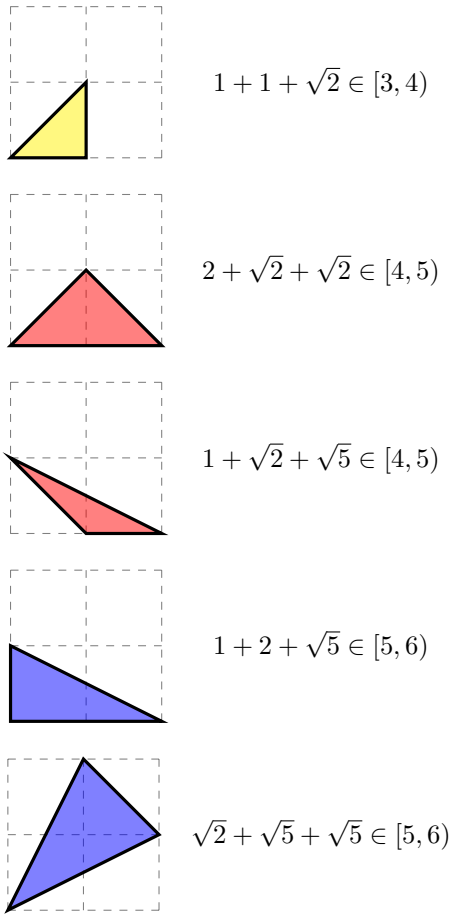

Figure 1: An example in yellow showing that $a(3) = 1$, and example in red showing that $a(4) = 2$, and an example in blue showing that $a(5) = 3$.

Question. Let $a(n)$ count n-triangles up to dihedral action. What is the asymptotic growth of $a(n)$?

Related.

1. How many tetrahedra?
2. How many quadrilaterals?

References.

`https://oeis.org/A298079` counts the number up to congruence.