

Intersections of "diagonals" in a triangle,
connecting all edges and all points
dividing the sides into n equal parts.

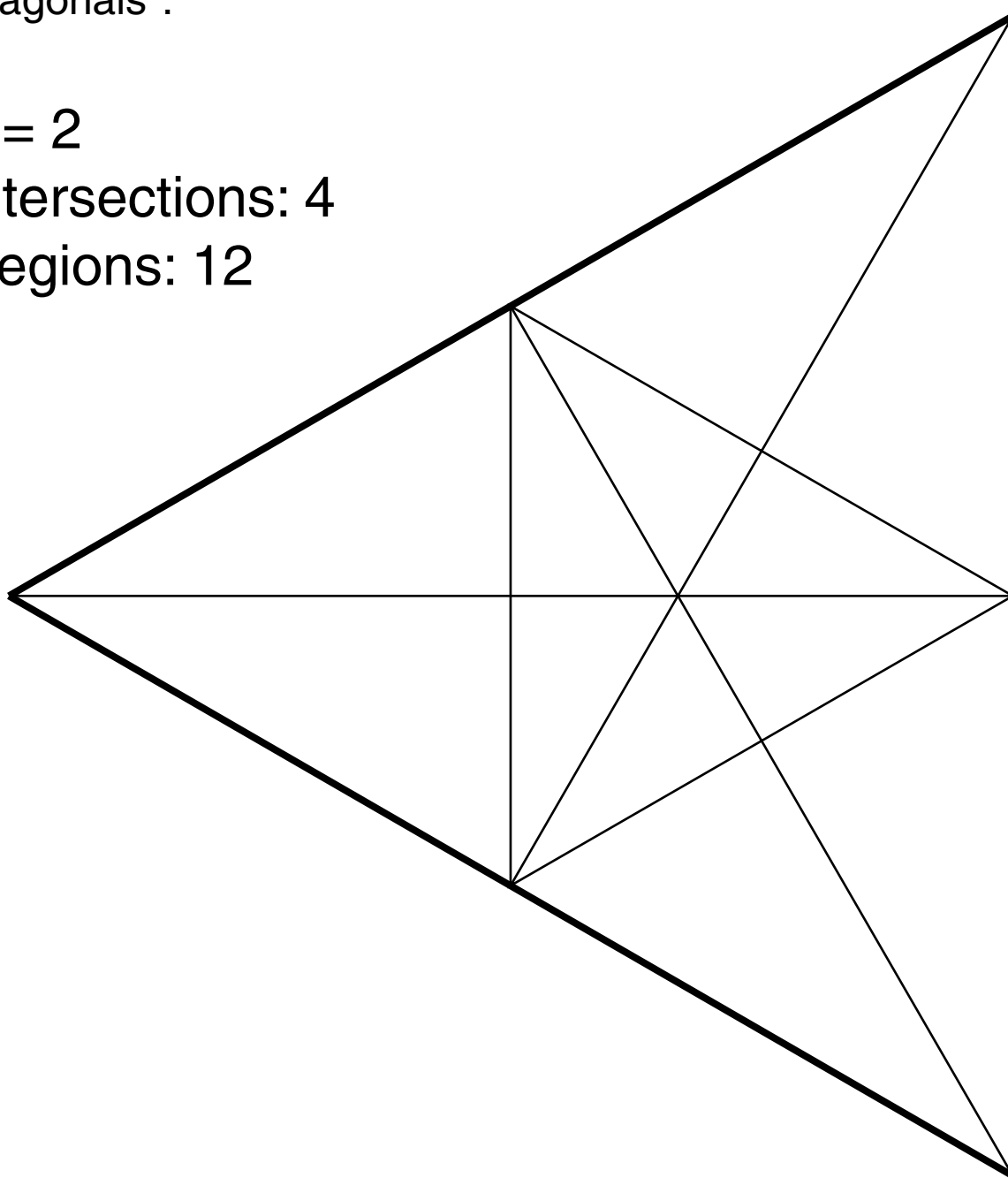
A092866(n) gives the number of distinct interior intersection
points, counting coincident intersections only once.

A092867(n) gives the number of regions formed by the
"diagonals".

$n = 2$

Intersections: 4

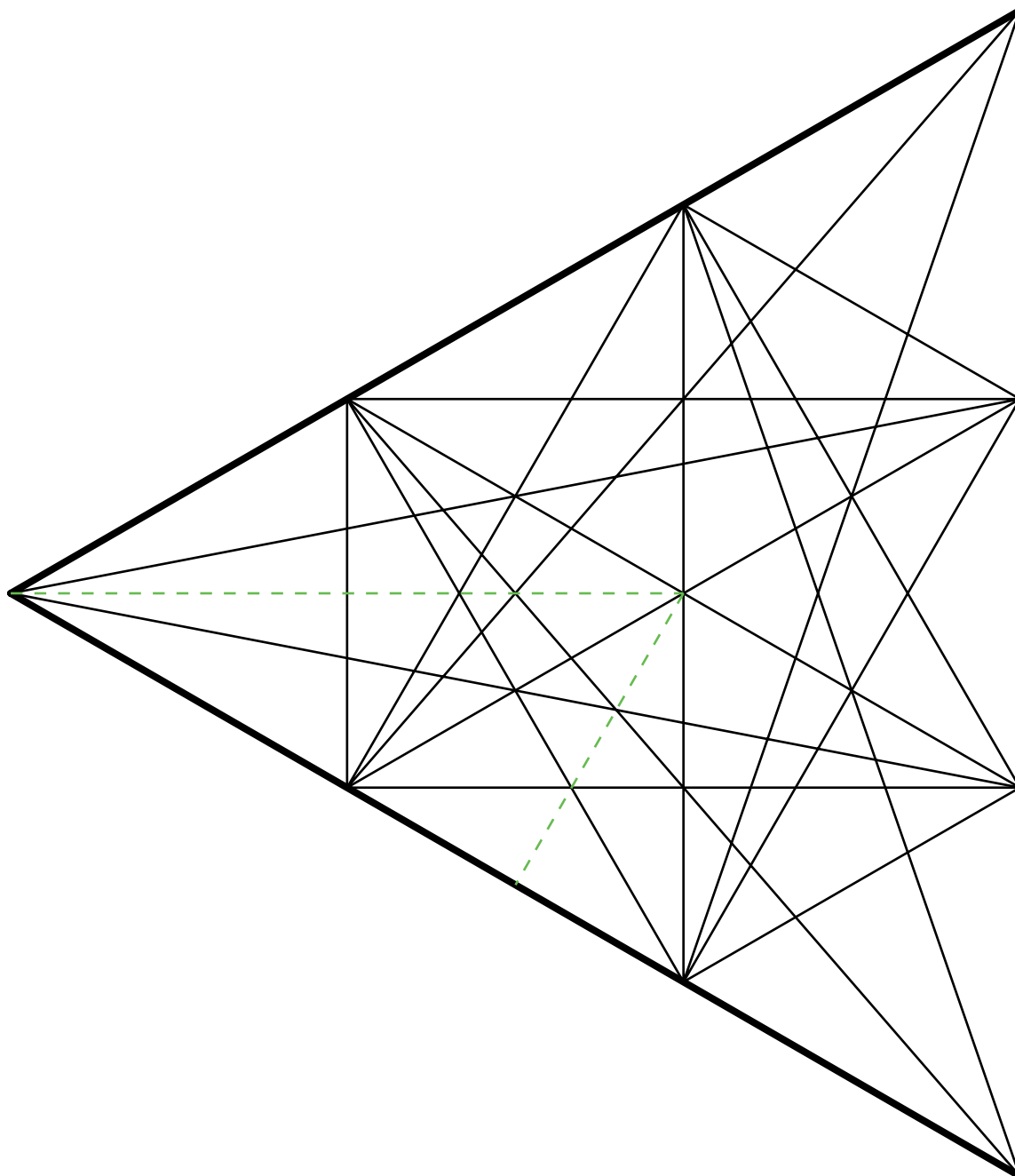
Regions: 12



$n = 3$

Intersections: $49 (= 6 \cdot 6 + 4 \cdot 3 + 1)$

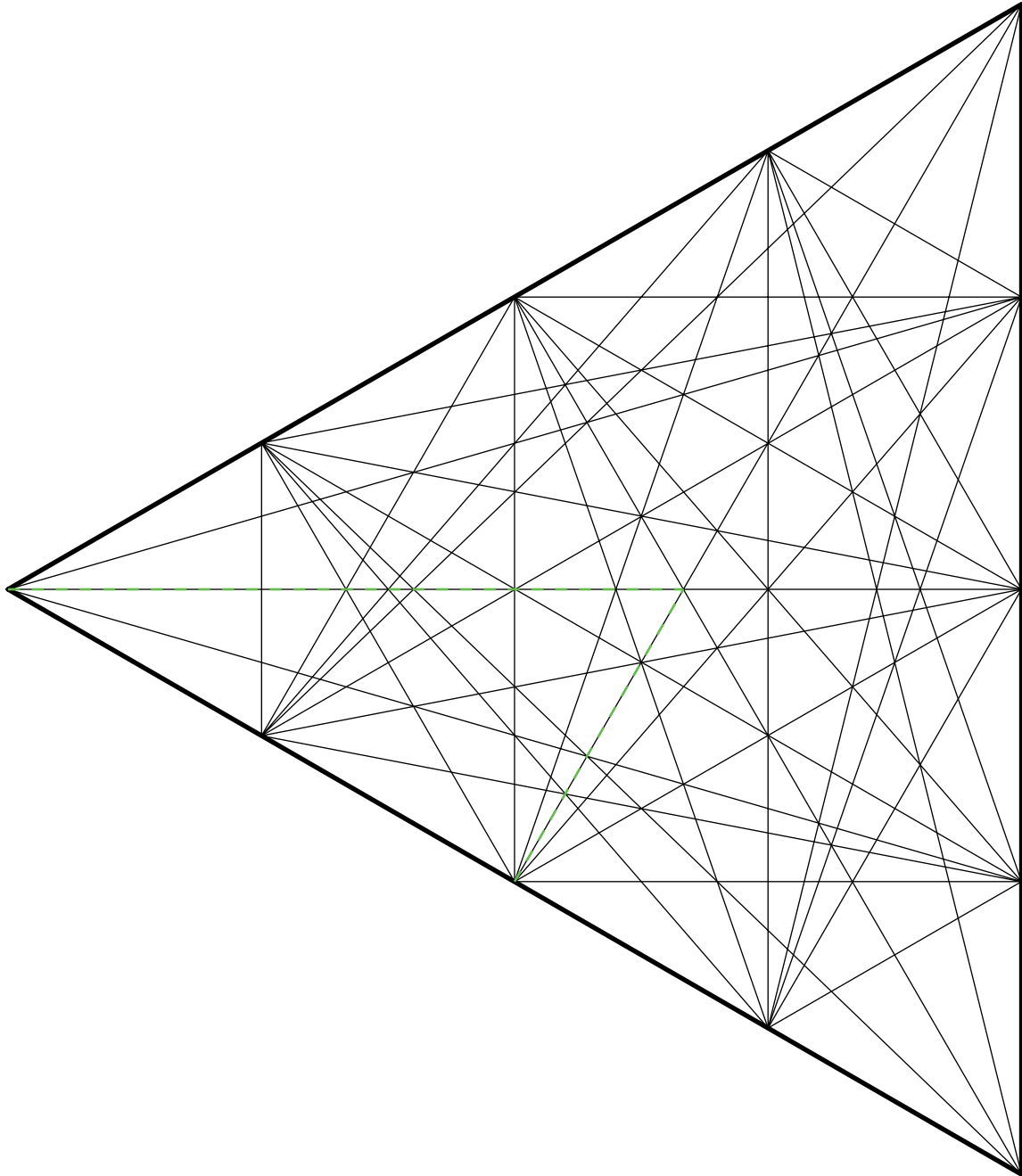
Regions: $75 (= 9 \cdot 6 + 7 \cdot 3)$



$n = 4$

Intersections: $154 (= 21 \cdot 6 + 9 \cdot 3 + 1)$

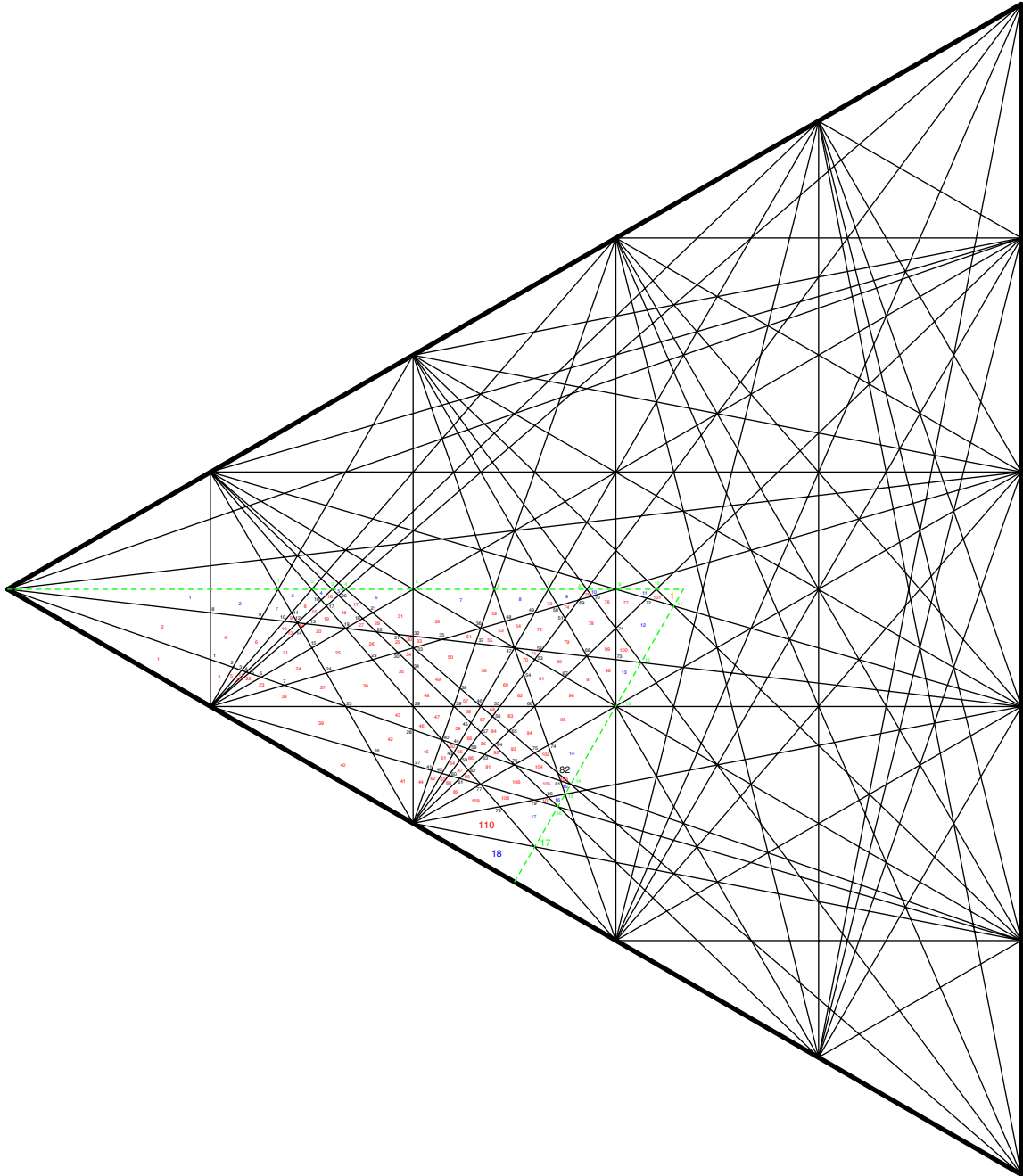
Regions: $252 (= 42 \cdot 6)$



$n = 5$

Intersections: $543 (= 82 \cdot 6 + 17 \cdot 3)$

Regions: $715 (= 110 \cdot 6 + 18 \cdot 3 + 1)$



$n = 6$

Intersections: ?

Regions: ?

