Intersections of "diagonals" in a triangle, connecting all edges and all points dividing the sides into n equal parts.
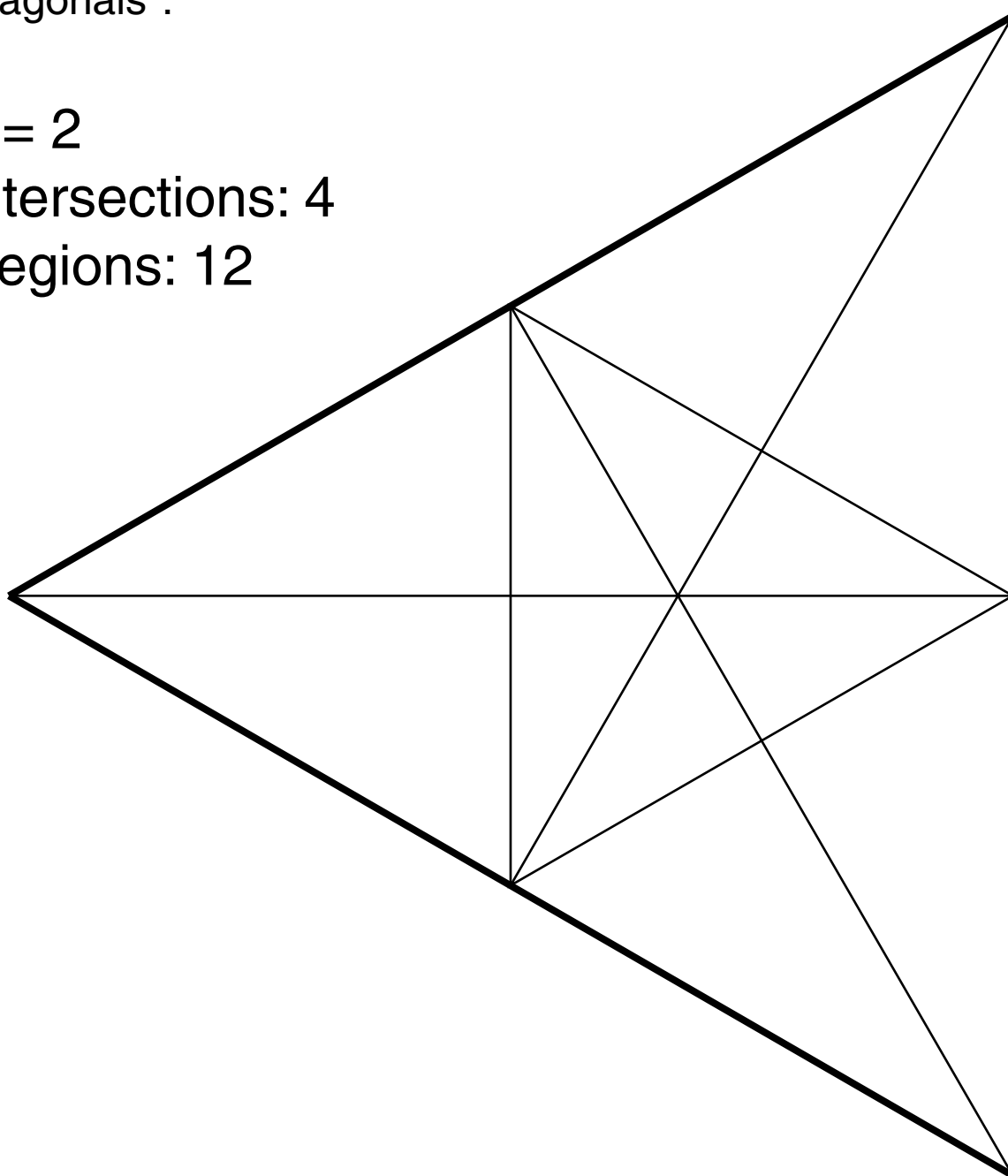
A092866(n) gives the number of distinct interior intersection points, counting coincident intersections only once.

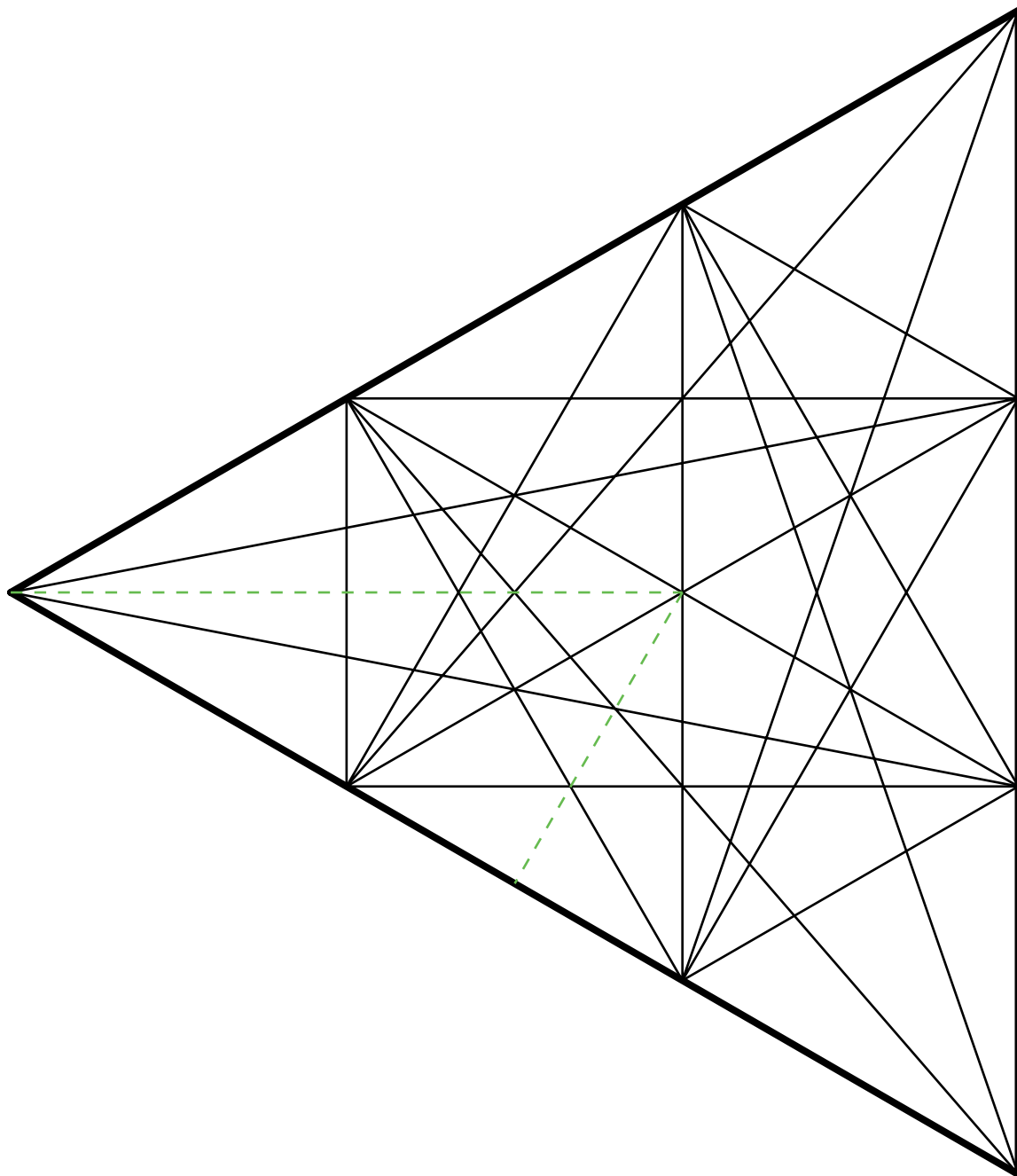A092867(n) gives the number of regions formed by the "diagonals".

n = 2
Intersections: 4
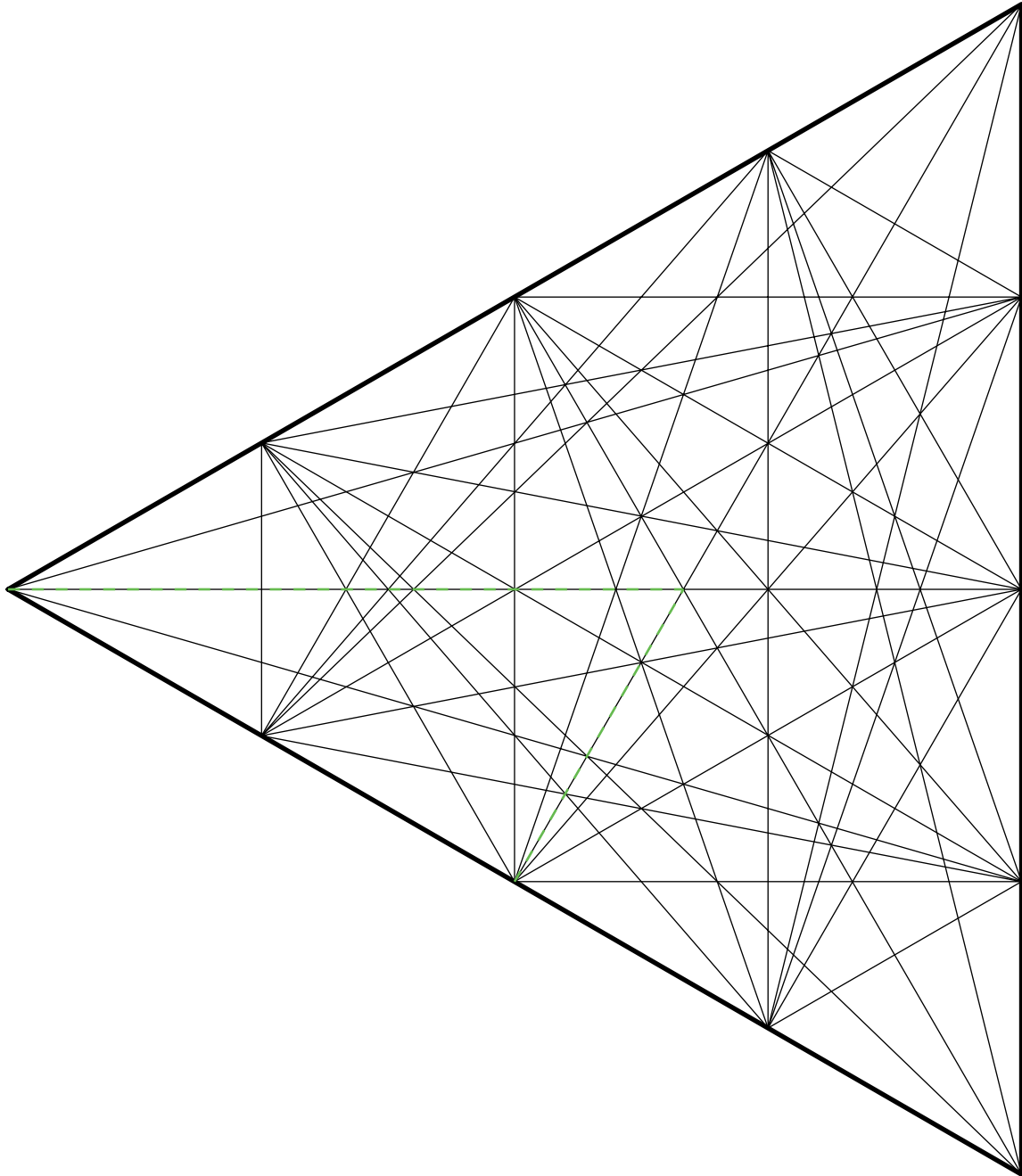Regions: 12

n = 3
Intersections: 49 (= 6*6 + 4*3 + 1)
Regions: 75 (= 9*6 + 7*3)

n = 4

Intersections: 166 (= 23*6 + 9*3 + 1)

Regions: 252 (= 42*6)

n = 5
Intersections: 543 (= 82*6 + 17*3)
Regions: 715 (= 110*6 + 18*3 + 1)
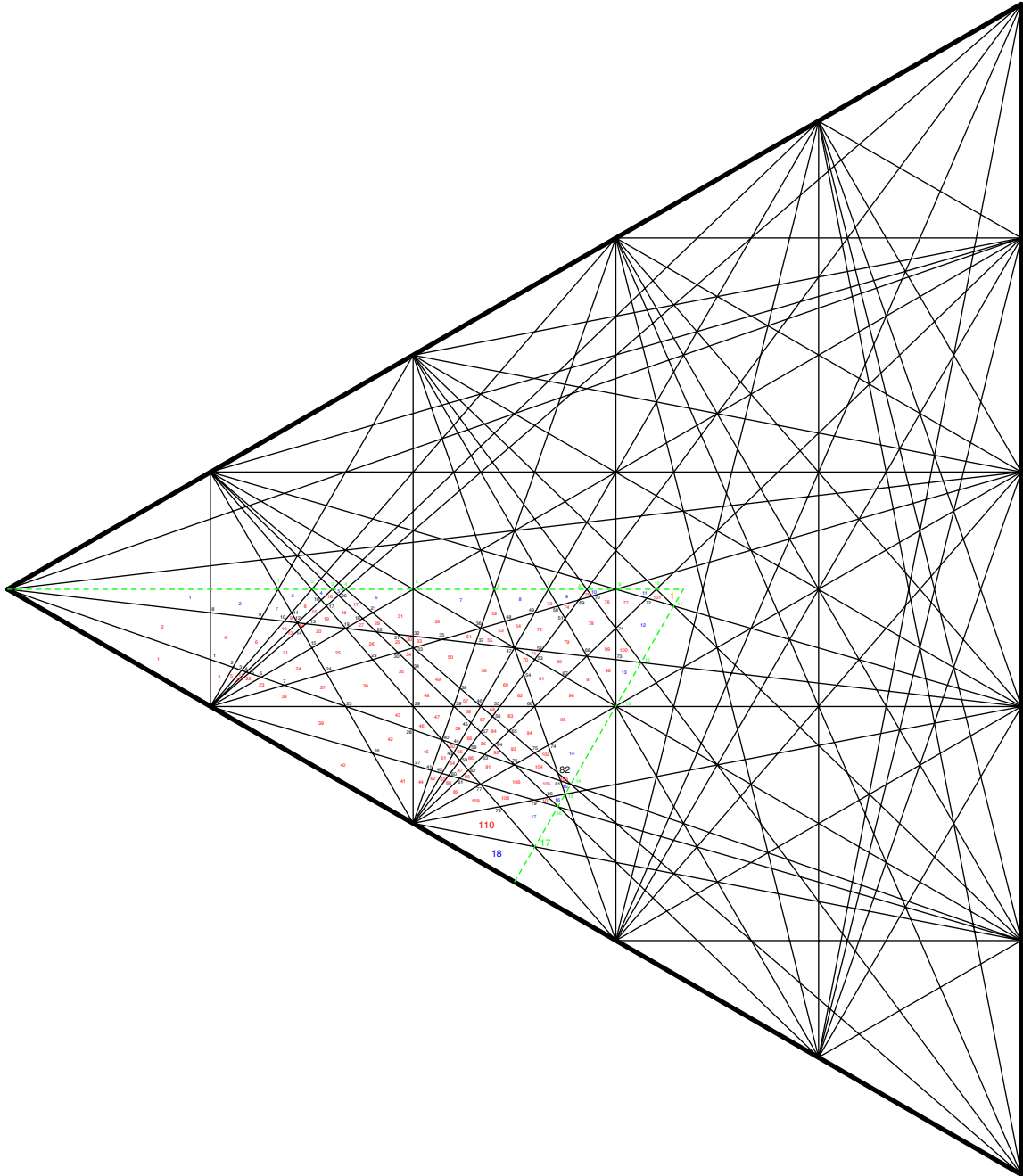
n = 6 (Counts by Cynthia Miaina Rasamimanananivo)

Intersections: 1237

Regions: 1572