

Polygon Triangulation Problem

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Polygon Triangulation problem is one of the problem in combinatorial mathematics. The problem is that, in how many ways can a convex polygon with $n+2$ sides (labelled $0, 1, 2, \dots, n$) be divided into triangles by non-intersecting diagonals. When we have $n+1$ sided polygon, it can be separated into triangles by non-intersecting diagonal in many ways. Our aim to find formula in how many ways we can do this. The main purpose of this project is to find a mathematical model of polygon triangulation and the explicit formula of how many ways can we use to have different triangle from $n+2$ sided polygon. ?

Awards Won:

