Polygons:
A polygon is the closed region of the plane bounded by a finite collection of line segments that form a closed curve that does not intersect itself.

Polygons:


Not Polygons:


Art Gallery Problem: Suppose an art gallery has a floor plan modeled by a polygon. A guard occupies a single point and can see in straight lines in all directions, to the gallery walls.
egg.


2 guards?
If the polygon has $n$ sides, what is the smallest number of guards that can protect the entire gallery?

