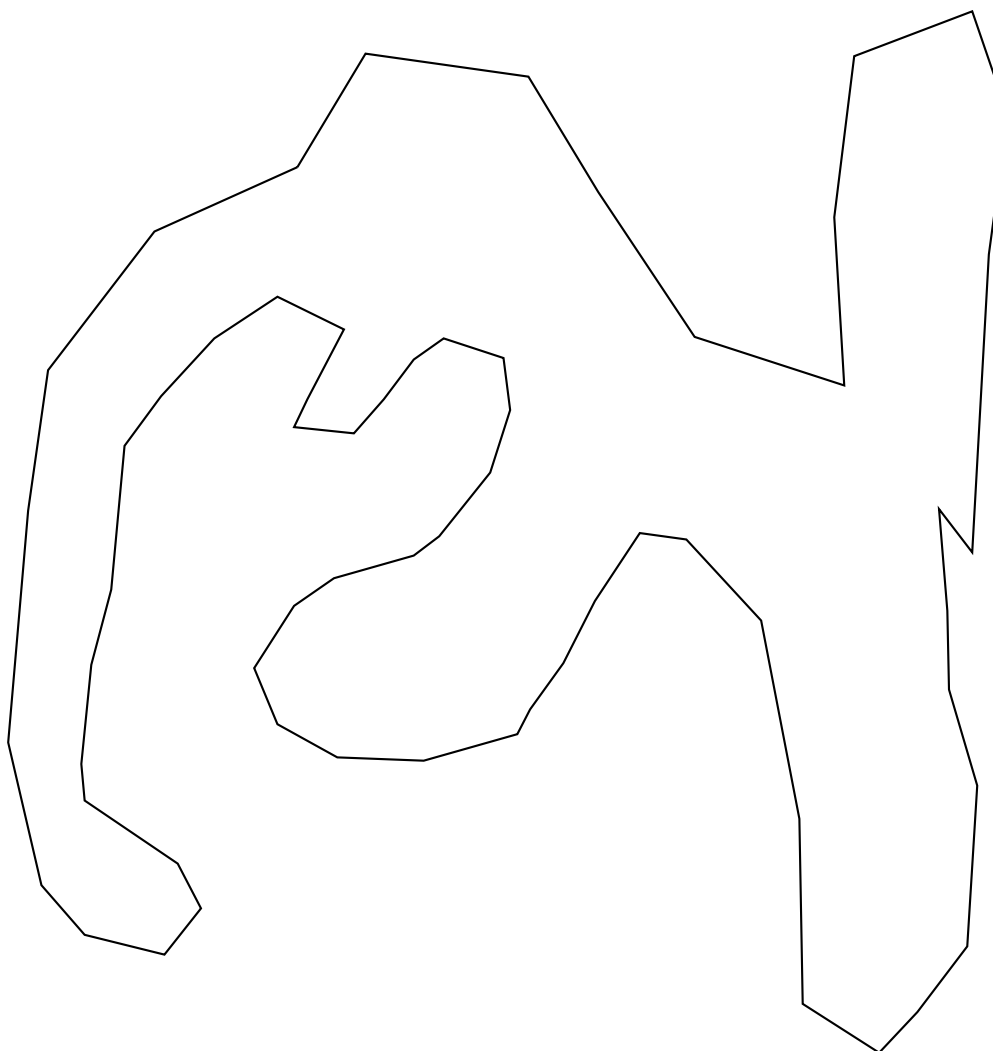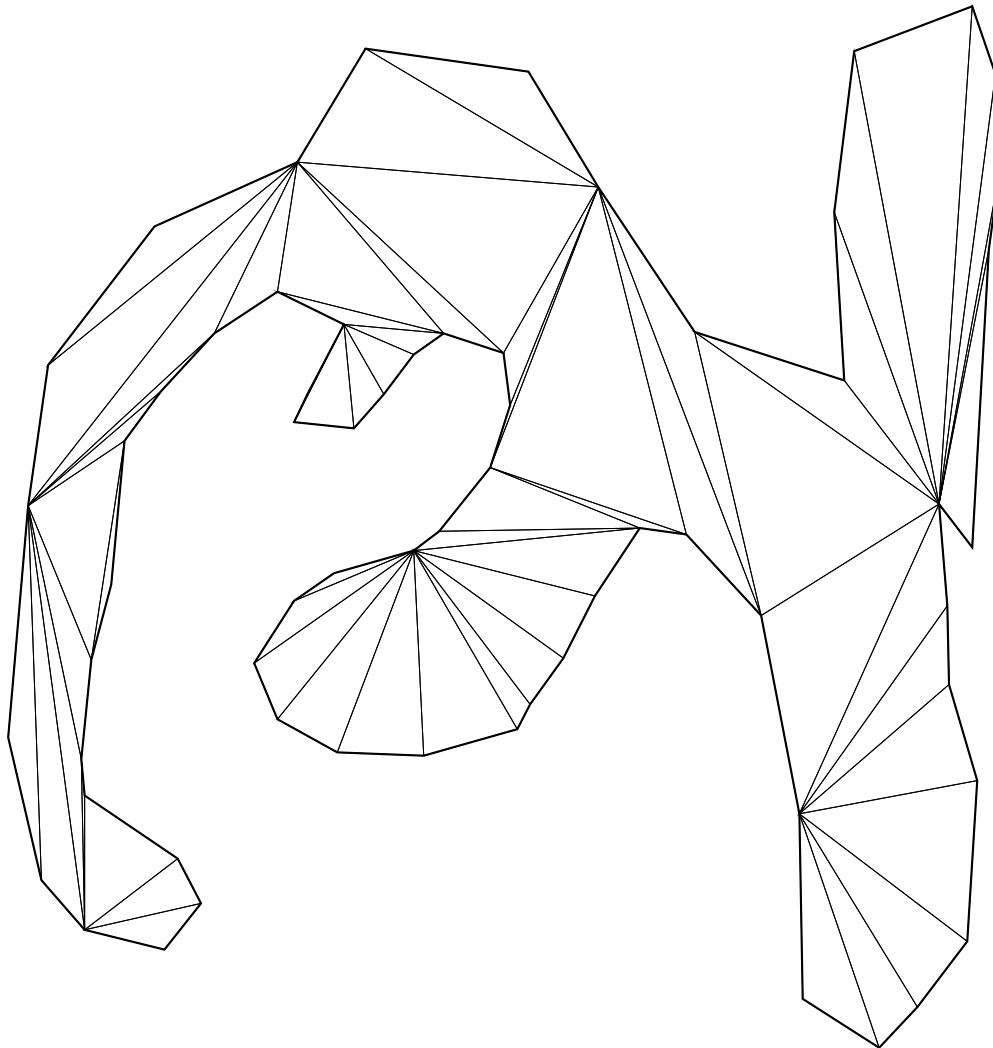The original polygon:

Triangulation:

Area = 1269.84