

Triangulation

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- Induction

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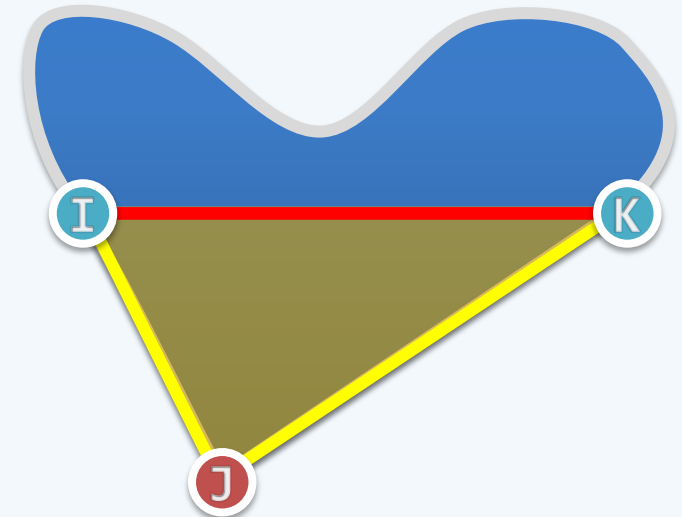
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❖ Consider the triangle $\Delta = IJK$

❖ We claim that P has an internal diagonal

❖ If Δ is an ear, then

IK is an internal diagonal



❖ Otherwise, there are other vertices inside Δ

❖ Let M be the one among them

with the maximal distance to IK

❖ Then JM should be an internal diagonal

❖ In both cases,

the diagonal breaks P

into smaller sub-polygons

