
Transformações GeométricasGuilherme Zeus Moura
zeusdanmou@gmail.com

§1 Problemas

Problema 1 (IMO 1986, 2) Given a point P_0 in the plane of the triangle $A_1A_2A_3$. Define $A_s = A_{s-3}$ for all $s \geq 4$. Construct a set of points P_1, P_2, P_3, \dots such that P_{k+1} is the image of P_k under a rotation center A_{k+1} through an angle 120° clockwise for $k = 0, 1, 2, \dots$. Prove that if $P_{1986} = P_0$, then the triangle $A_1A_2A_3$ is equilateral.

Problema 2 Problema [math/iran/geo/a/2019/1](#) não encontrado!