△DEF 为正三角形 AD=BE=CF 求证 △ABC为正三角形 u В F 假设 $\angle \alpha < \angle \theta$ $\angle \alpha > \angle \theta \\ \div \cos \alpha = \frac{u^2 + |AF|^2 - l^2}{2u|AF|} = \frac{u^2 + x^2 - l^2}{2ux}$ $\therefore (\cos \alpha)' = (\frac{(u^2 - l^2)}{2u} \frac{1}{x} + \frac{x}{2u})' = \frac{(l^2 - u^2)}{2u} \frac{1}{x^2} + \frac{1}{2u}$ 如果 l>u, 随着 α 增大 |AF| 减小 $\angle \alpha < \angle \theta$ => |AF| < |CE|=> |AC| < |BC|=> $\angle \beta < \angle \alpha$ => |BD| > |AF|=> |AB| > |AC|=> |CE| < |BD|=> |BC| < |AB|=> |AB| > |AB|

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