



Simetria \rightarrow posición de G.

$$A_1 \left(\frac{c}{3}; \frac{c}{3} \right) = \frac{c^2}{2}$$

$$A_2 \left(-\frac{c}{3}; -\frac{c}{3} \right) = \frac{c^2}{2}$$

$$I_{x'} = 2 \left[\frac{c \cdot c^3}{36} + \frac{c^2}{2} \times \left(\frac{c}{3} \right)^2 \right] = 2 \left[\frac{c^4}{36} + \frac{c^4}{18} \right] = \frac{c^4}{6}$$

$$I_{y'} = 2 \left[\frac{c \cdot c^3}{12} \right] = \frac{c^4}{6}$$

$$I_{x'y'} = \left[+\frac{c^2 \cdot c^2}{72} + \frac{c^2}{2} \frac{c}{3} \frac{c}{3} \right] + \left[\frac{c^2 \cdot c^2}{72} + \frac{c^2}{2} \left(-\frac{c}{3} \right) \left(-\frac{c}{3} \right) \right] = 2 \left[\frac{c^4}{72} + \frac{c^4}{18} \right] = \frac{5c^4}{36}$$

$$I_{1,2} = \frac{I_{x'} + I_{y'}}{2} \pm \sqrt{\left(\frac{I_{x'} - I_{y'}}{2} \right)^2 + I_{x'y'}^2} = \frac{c^4}{6} \pm \sqrt{\left(\frac{5c^4}{36} \right)^2} = \frac{c^4}{6} \pm \frac{5c^4}{36} \quad \frac{6 \pm 5}{36} c^4$$

$$I_1 = \frac{11}{36} c^4$$

$$I_2 = \frac{1}{36} c^4$$

$$\operatorname{tg} \alpha_1 = \frac{I_2 - I_1}{I_{x'y'}} = \frac{\frac{c^4}{36} - \frac{11c^4}{36}}{\frac{5c^4}{36}} = -1 \quad \Rightarrow \quad \alpha_1 = -45^\circ$$

