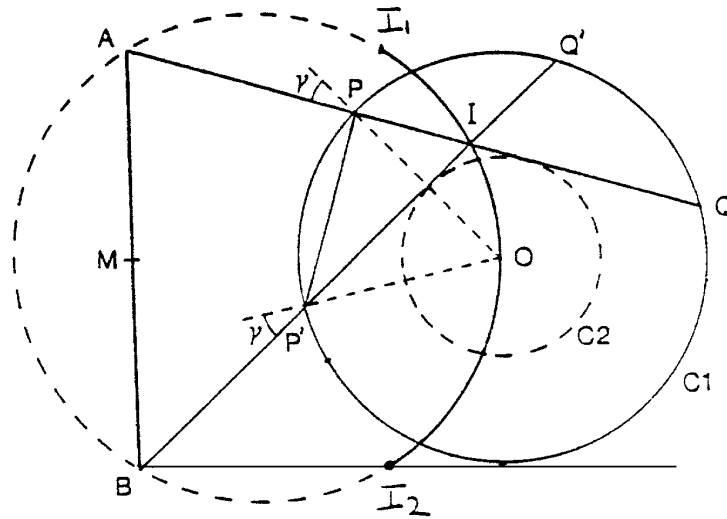


Points relating to the locus theorem (see p 29 & Fig 3)

The extent of the locus of I depends on the position of the line AB in relation to the circle $C1$. There are three case to consider.

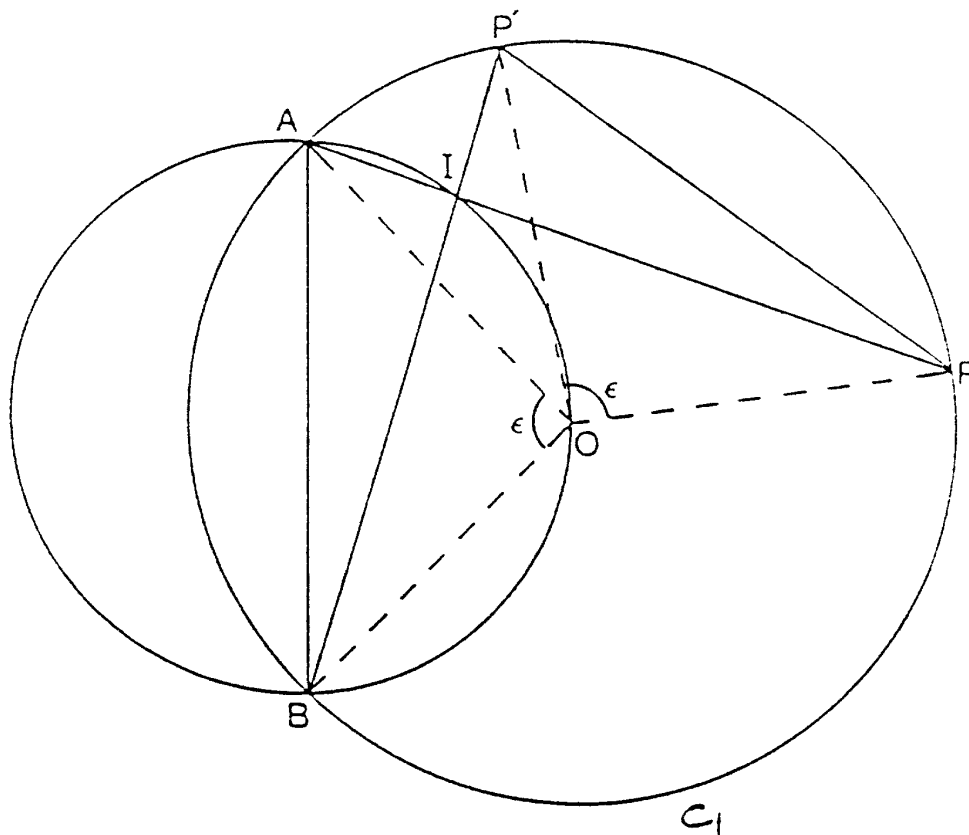
(a) AB outside/on the circle.

If the line AB is *outside* the circle, the locus I is the arc I_1OI_2 , as discussed in the Maths Gaz article. If the line AB *touches* the circle $C1$ (at M), then the locus I is the arc AOB .



(b) AB is a chord of the circle $C1$ (see figure below).

In this case one revolution of the chord PP' results in the intersection I making one complete revolution of the circle ABO .



(c) AB is inside the circle C1 (see figure below).

In this case, one revolution of the chord PP' results in the intersection I making *two* complete revolutions of the circle ABO .

