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$\alpha = \sqrt{6} + \sqrt{3}i, \beta = -1 + \sqrt{2}i$ . Two points  $A(\alpha), B(\beta)$  are in the circumference of a circle  $C$  in the complex plane, and the straight line  $OA$  is the tangent to  $C$ .

1. Find the  $\angle OAB$ .
2.  $D(\gamma)$  is the center of  $C$ . Evaluate  $\gamma$ .
3.  $E(\delta)$  is the other point of contact of the tangent to  $C$  through  $O$ . Evaluate  $\delta$ .

