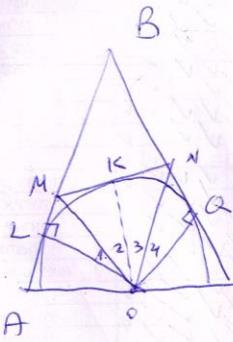


1.55



$$\angle L + \angle Q = 180^\circ \quad (1)$$

1.1/S 2 πιούλ γραντ $\angle BQO$ \Leftarrow
σημείωση γραντ $\angle BQO = 180^\circ$ και $\angle BQJ$
 $\angle QOC = \angle AOL = 90 - \alpha$ πν ②

$$180 = \angle AOL + \angle O_1 + \angle O_2 + \angle O_3 + \angle O_4 + \angle QOC$$

$$180 = 90 - \alpha + \angle O_1 + \angle O_2 + \angle O_3 + \angle O_4 + 90 - \alpha$$

$$2\alpha = \angle O_1 + \angle O_2 + \angle O_3 + \angle O_4$$

(από πήλινη αρχή γραντ 2) μέση $\angle NQO$! $\angle MKO$

$$\angle O_3 = \angle O_4, \angle O_1 = \angle O_2 \quad \Leftarrow$$

$$2\alpha = 2\angle O_2 + 2\angle O_3 / : 2$$

$$\alpha = \angle O_2 + \angle O_3$$

$$\boxed{\alpha = \angle MON}$$

$$(\text{είδη}) \angle A = \angle C \quad (2)$$

(S.S) $\triangle AMO \sim \triangle CON$

$$\frac{AO}{NC} = \frac{AM}{OC}$$

$$AO \cdot OC = AM \cdot NC$$

$$\frac{AC}{2} \cdot \frac{AC}{2} = AM \cdot NC$$

$$\Rightarrow \angle O_3 = \angle O_4 = 90 - \beta \quad \Leftarrow \beta = \angle ONQ \quad \text{πν}$$

$$\angle O_2 = \angle O_1 = \alpha - (90 - \beta) = \alpha + \beta - 90$$

$$\angle AOL = \angle AOL + \angle O_1 = 90 - \alpha + \alpha + \beta - 90 = \beta$$

(3.3.3) $\triangle OQC \cong \triangle OLA$

$$\frac{1}{2}AC = AO = OC \quad \Leftarrow$$