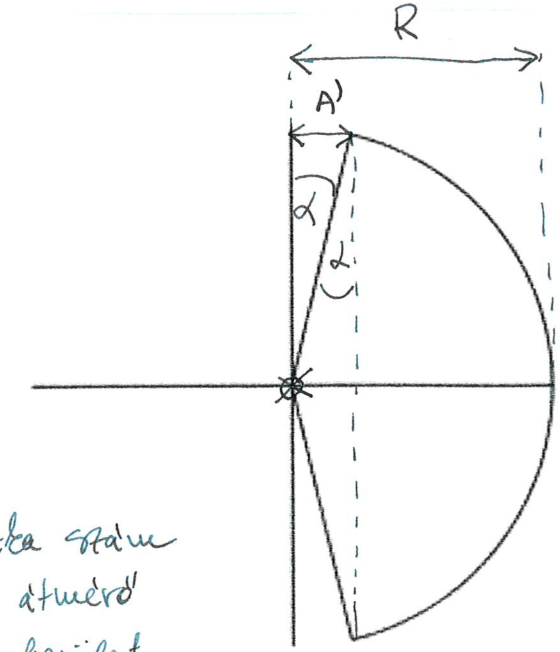


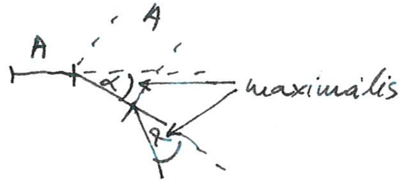
$$\frac{A}{B} = \frac{156{,}4}{56{,}6} \approx \frac{11}{4}$$

$$\frac{A}{R} = \frac{156{,}4}{25{,}7} \approx 6$$

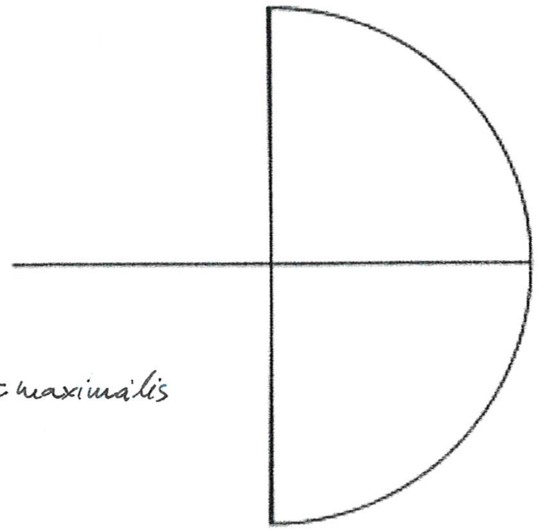
$$\alpha = 103{,}24^\circ - 90^\circ = 13{,}24^\circ$$

$$A' = R \cdot \sin\alpha$$

$$\sin\alpha = \frac{A'}{R}$$



$$\alpha = \frac{360^\circ}{N}$$



N: deszka szám
D: kád átmérő
K: kád kerület (középvonal...)

$$\alpha_{max} = \frac{2\pi}{N}$$

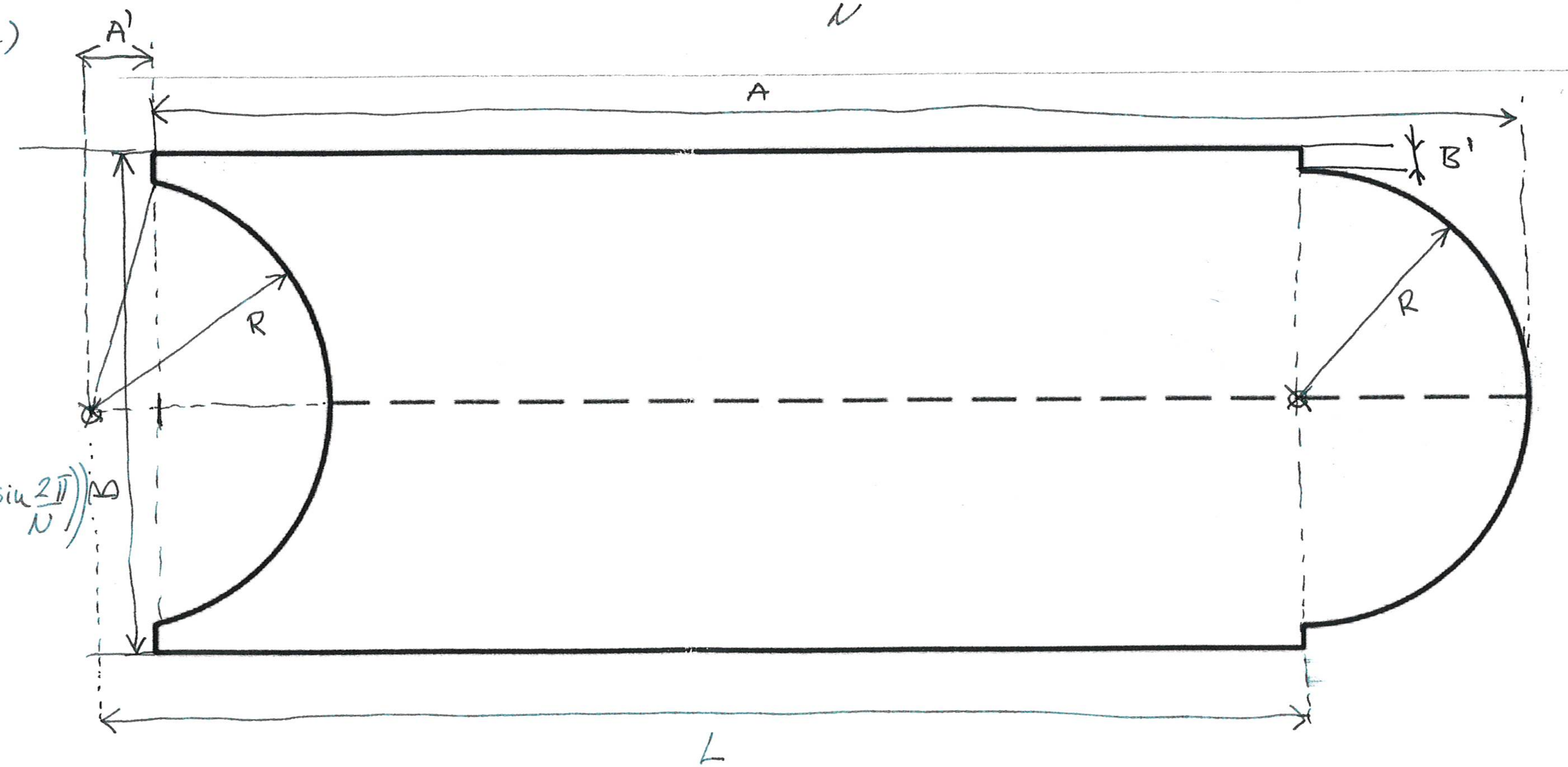
$$A' = R \cdot \sin\alpha$$

$$L = A - R + A'$$

$$K = L \cdot N$$

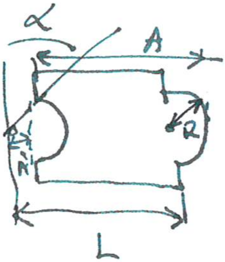
$$D = K / \pi$$

$$\Rightarrow D = \frac{N}{\pi}\left(A - R\left(1 - \sin\frac{2\pi}{N}\right)\right)$$



K Kerület meghatározása ⇒ D

átmérő



$$\alpha_{max} = \frac{360^\circ}{N}$$

$$A' = R \cdot \sin\alpha$$

$$L = A - R + A'$$

$$K = N \cdot L$$

$$D = K / \pi$$

$$D = K/\pi = \frac{(N \cdot L)}{\pi} = \frac{N \cdot (A - R + A')}{\pi} =$$

$$= \frac{N}{\pi} \cdot \left(A - R + (R \cdot \sin\alpha)\right) =$$

$$= \frac{N}{\pi} A - \frac{N}{\pi} R + \frac{N}{\pi} R \cdot \sin\alpha =$$

$$= \frac{N}{\pi} \left(A - R\left(1 - \sin\alpha\right)\right) = D$$

$$\cancel{\arg\min_{N} (\hat{D} - D)}$$

Keressük N, hogy

$|\hat{D} - D|$ minimális

(Fix A, R mellett ...)