

21 160 אפריל 1977

312 מ.מ.כ

על גביה - אורך (אורך) סוף חתך במחזור:

כאשר α קטן, $\sin \alpha \approx \alpha$, $\cos \alpha \approx 1 - \frac{\alpha^2}{2}$
 $\sin^2 \alpha \approx \alpha^2$, $\cos^2 \alpha \approx 1 - \alpha^2$
 $\tan \alpha \approx \alpha$, $\cot \alpha \approx \frac{1}{\alpha}$
 $\sec \alpha \approx 1 + \frac{\alpha^2}{2}$, $\csc \alpha \approx \frac{1}{\alpha} + \frac{\alpha}{6}$
 $\ln \cos \alpha \approx -\frac{\alpha^2}{2}$, $\ln \sin \alpha \approx \ln \alpha - \frac{\alpha^2}{2}$
 $\ln \tan \alpha \approx \ln \alpha$, $\ln \cot \alpha \approx -\ln \alpha$
 $\ln \sec \alpha \approx \frac{\alpha^2}{2}$, $\ln \csc \alpha \approx -\ln \alpha + \frac{\alpha^2}{2}$

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