

timeInt

$$\int \frac{1}{(1+\epsilon \cos \theta)^2} dy = \frac{\epsilon \sin \theta}{(\epsilon^2 - 1)(\epsilon \cos \theta + 1)} - \frac{2 \tanh^{-1} \left(\frac{(\epsilon - 1) \tan(\frac{\theta}{2})}{\sqrt{\epsilon^2 - 1}} \right)}{(\epsilon^2 - 1)^{3/2}}$$

```
int {1 over (1+ %epsilon cos%theta)^2} dy = {
%epsilon sin%theta } over { (%epsilon^2 - 1)(%epsilon
cos%theta + 1)} - { {2 tanh^-1 left({(%epsilon-1)
tan(%theta over 2)}) over {sqrt{%epsilon^2-1}}} right)}}
over { (%epsilon^2 -1)^{3/2} }
```