However, the assumption of Theorem 1 is that $P_n = P$ after one revolution along C, and this means by (3.10) that $2\phi_n = 2\phi + 2\pi$, and therefore

$$\phi_n = \phi + \pi. \qquad (3.12)$$

The assumption of Theorem 1 therefore implies the equation

$$\int_{\phi}^{\phi + \pi} \frac{d\theta}{\sqrt{1 - k^2 \sin^2\theta}} = n\omega. \qquad (3.13)$$

This, then, is an equation implied by our assumption that $P = P_n$. The converse is also true because the integrand of (3.13) is positive, and therefore (3.13) means, by (3.10), that

$$\phi_n - \phi = \pi.$$

The question now is this: *Does the equation* (3.13) *remain valid if we vary ϕ?* Evidently so, because the integrand of (3.13) is a periodic function of period π, and so the integral over a period, from ϕ to $\phi + \pi$, does not depend on the value of ϕ. This completes our proof of Theorem 1.

If we should have that $P_n = P$, not after one revolution, but after k revolutions around the circle C, then (3.13) is to be replaced by

$$\int_{\phi}^{\phi + k\pi} \frac{d\theta}{\sqrt{1 - k^2 \sin^2\theta}} = n\omega$$

and again the equation remains valid if we vary ϕ.

The beauty of the proof is that, while it uses the elliptic integral

$$\int \frac{d\theta}{\sqrt{1 - k^2 \sin^2\theta}},$$

it uses only the simplest concepts of integral calculus.

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Peter Winkler

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