Enigmas, etc.

Elevation Angle

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L et us continue sailing on the same Cartesian impedance plane. Recalling the origin-centered circular arc presented last month, we now slide it $50\,\Omega$ rightward as shown in Figure 1. Find the Poincaré length Λ of this arc and express it in terms of the elevation angle θ observed from the origin. Which of the following is equal to Λ?

(a) θ
(b) $\sin\theta$
(c) $\cos\theta$
(d) $\tan\theta$

The solution will be revealed next month. Until then, enjoy this puzzle and expect the arc length Λ to exhibit
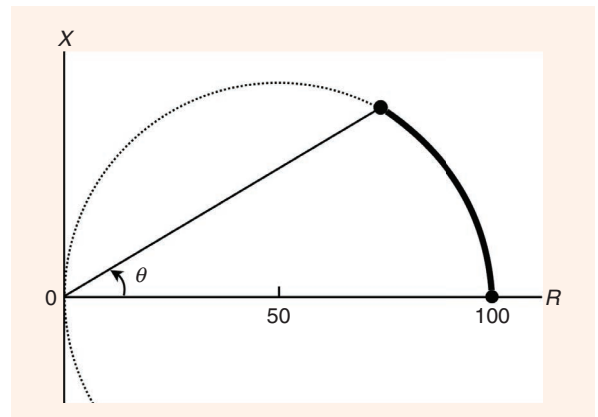

Figure 1. *The circular arc standing upon the horizon with elevation angle θ.*

a physical meaning different from that presented last month, although the two arcs are of the same shape and dimensions. ∧∧.

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