Forum Geometricorum
Volume 12 (2012) 129.

FORUM GEOM
ISSN 1534-1178

Correction to Grégoire Nicollier, Reflection Triangles and Their Iterates, *Forum Geom.*, 12 (2012) 83–128.

An error was regretfully introduced in the statement of Theorem 11 in the bottom of p.108 during the typesetting process. Here is the corrected statement.

Theorem 11. *The parents in $\mathcal{T}$ of I_α, $\alpha \neq \frac{\pi}{3}$, are – up to the exceptions mentioned below – the two non-isosceles classes $\{\alpha'_\pm, \beta'_\pm, \gamma'_\pm\}$ given by the non-obtuse angles*

$$\alpha'_\pm = \ \tfrac{\pi}{4} \pm \tfrac{\alpha}{2}, \qquad \beta'_\pm = \ \operatorname{arccot}\left(2\cos\alpha + 2\sqrt{2 - \left(\frac{1}{2} \pm \sin\alpha\right)^2}\right),$$

and by

$$\gamma'_\pm = \operatorname{arccot}\left(2\cos\alpha - 2\sqrt{2 - \left(\frac{1}{2} \pm \sin\alpha\right)^2}\right)$$

in $]0,\pi[$ – with coordinates $\left(\frac{5}{4} \pm \sin\alpha, \frac{(1\pm\sin\alpha)^2}{64(1-\sin^2\alpha)}\right) \in \mathcal{T}^*$ – and the isosceles triangle classes with coordinates (s, p) (automatically on the roof) *corresponding to each real root s of $Q_3(s)$ given by* (23) *for $t = \sin^2\alpha$, with p as in Theorem 10.*

For $\alpha = \omega_{66}$ the triangle class $\{\alpha'_+, \beta'_+, \gamma'_+\}$ is isosceles with equal angles ω_{50} and corresponds to the triple root $s = \sqrt{2} + \frac{3}{4}$ of $v(s) = P_{\min}$ for $S = 12\sqrt{2} - \frac{59}{4}$. For $\alpha > \omega_{66}$ the non-isosceles class $\{\alpha'_+, \beta'_+, \gamma'_+\}$ doesn't exist: it corresponds to the parent outside $\mathcal{T}^*$ and $\beta'_+, \gamma'_+ \notin \mathbf{R}$.

Publication Date: April 20, 2012. Communicating Editor: Paul Yiu.