The transformation $T$ from $P,(\xi, \eta)$, to $P^{\prime},\left(\xi^{\prime}, \eta^{\prime}\right)$, where $\xi^{\prime}=y\left(Z_{3}+p\right)-H$, $\eta^{\prime}=\dot{y}\left(Z_{3}+p\right)$, is topological in $\bar{\Delta}$. We shall show that there is a fixed point of $T$ in $\Delta$, which then corresponds to the desired periodic $\Gamma$. Suppose there is no fixed point of $T$ in $\Delta$. Then a continuous vector, or arrow, $P \rightarrow P^{\prime}$, exists for all points $P$ of $\bar{\Delta}$. Now the disposition of the arrows at boundary points of $\Delta$ is a follows. If $P$ is a $B_{+}$point, $T P$ (considered as a point of $\mathfrak{H}$ at $Z_{3}$ ) corresponds to a $\Gamma^{\prime}$ through the + end of (the first) $G_{1}$; further since $\Gamma$ is in $S^{*}\left(Z_{2}+p\right)$ [Lemma 34], it has arrived at $G_{1}$ from an $S^{*}$. By Lemma 35 (i) its r.p. is distant $O(\zeta)$ from $P_{+}$. The arrow from such a $P$ points nearly at $P_{+}$. Similarly for $B_{-}$points. A boundary point on $X Y$ corresponds to a $\Gamma$ through all the $G, G^{\prime}$; hence its $\left|\dot{y}\left(Z_{3}+p\right)\right|<L_{3}^{*} k^{-1}=\eta_{0}$, by Lemma 34. TP has accordingly $|\eta|<\eta_{0}$, and the arrow from such a $P$ has a downward component. Similarly one from a boundary point on $Z W$ has an upward one. It follows from these facts, and the continuity of the arrow in $\bar{\Delta}$, alone, that when $P$ describes a simple closed contour whose maximum distance from the boundary of $\Delta$ is small, the arrow rotates either through $+2 \pi$ or $-2 \pi$ (which it is depends on the disposition of the signs on the two continua joining $X Y, Z W$, and the sense of description). This is incompatible with there being no fixed point in $\Delta$.

## ERRATA

Corrections to the paper: "On non-linear differential equations of the second order. III. The equation $\ddot{y}-k\left(1-y^{2}\right) \dot{y}+y=b \mu k \cos (\mu t+\alpha)$ for large $k$, and its generalizations" by J. E. Littlewood:

Page 277, line 11 Read $O\left(A(d) k^{-1}\right)$ for $O\left(A\left(d, d^{\prime}\right) k^{-1}\right)$
286, line 16 should read

$$
\begin{equation*}
V^{\prime}+V=-\left(\frac{4}{3}-2 b\right) k-\int_{U}^{v^{\prime}} y d t \tag{1}
\end{equation*}
$$

299, Fig. $5\left(V^{*}+M\right)^{\prime}$ should be higher.

