

Corrigendum to
“Pentagonal and heptagonal repdigits”
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Abstract

Our original paper [1], contains some typos that we would like to fix here. These typos do not affect the final results that we obtained.

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In the proof of Theorem 2.1, we should have multiplied equation (2.2) by $16A^2\ell^2 10^{2r}$ instead of $16\ell^2 10^{2r}$. This gives us

$$Y^2 = X^3 + \bar{A}, \tag{1}$$

where

$$X := 4A\ell 10^{m_1+r}, Y := 12A\ell 10^r(2An + B),$$

and

$$\bar{A} := 16A^2\ell^2 10^{2r} (9(B^2 - 4AC) - 4A\ell).$$

The second typo is that equation (2.6) should have been

$$\ell \left(\frac{10^m - 1}{9} \right) = \frac{n(5n - 3)}{2}. \quad (2)$$

The last typo is that a_3 should have been

$$a_3 := 11979\ell^2 10^{4r} (99 - 24\ell).$$

Except the above typos, all the proofs and computations are correct.

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References

- [1] F. LUCA, B. KAFLE, A. TOGBÉ: *Pentagonal and heptagonal repdigits*, *Annales Mathematicae et Informaticae* 52 (2020), pp. 137–145,
DOI: <https://doi.org/10.33039/ami.2020.09.002>.