Review of: "Additive and Multiplicative Operations on Set of Polygonal Numbers"

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Hi, Dear Dr. Gabriele,

I hope this email finds you well.

I think that this paper is written well, but there is some incertitude in the text.

1. It would be better if the author used "Theorem" for results such as $P(k,m)+P(k,n)$ and $P(k,m)*P(k,n)$. (Cases 8, 9, 10, 11 will be proofs for this "Theorem")

2. The author wrote the result for $P(k,n)$ ($n<0$) in the abstract, but there isn't a proof for it in the paper.

3. Also, I think that it will be better to determine amounts for "m" and "n" in $P(k,m)+P(k,n)$ and $P(k,m)*P(k,n)$ throughout the paper. (For example, Part B)

4. It is proven that $Hx\_(n)=T\_(2n-1)$ and $3P\_(n)=T\_(3n-1)$. So it will be better if you mention them before Case 4.

Best regards,

Khoeini