

Correction

Correction: Kowalenko, V. Exact Values of the Gamma Function from Stirling’s Formula. *Mathematics* 2020, 8, 1058

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Error in Table 4

In the original publication [1], there was a mistake in Table 4 as published. The value of TS for $N = 30$ is incorrect. The value should be “ $-52.07235660935681329352406137393 i$ ”. The corrected Table 4 appears below.

Table 4. $\ln \Gamma(3 \exp(i\pi/2))$ via (25) for various values of N .

N	Quantity	Value
	$F(3 \exp(i\pi/2))$	$-4.3427565915140719616112579569 - 0.4895612973931192354299251350522 i$
	$SD_0^{SL}(3 \exp(i\pi/2))$	$3.256206078642828367679816468 \times 10^{-9}$
	Combined	$-4.3427565882578658829684295892 - 0.4895612973931192354299251350522 i$
	TS	0
1	$R_1^{SL}(3 \exp(i\pi/2))$	$-0.0278840894653691199321777792256 i$
	Total	$-4.3427565882578658829684295892 - 0.5174453868584883553621029142779 i$
	TS	$0 - 0.0278842394252900781377131527007 i$
6	$R_6^{SL}(3 \exp(i\pi/2))$	$0 - 1.8907874105339892863379255 \times 10^{-8} i$
	Total	$-4.3427565882578658829684295892 - 0.51744555572628341890753115113225 i$
	TS	$0 - 0.0278842563298976281594154202028 i$
9	$R_9^{SL}(3 \exp(i\pi/2))$	$0 + 3.2562060786428283676798164 \times 10^{-9} i$
	Total	$-4.3427565882578658829684295892 - 0.51744555572628341890753115113225 i$
	TS	$0 - 0.0278842691899612112195938305035 i$
15	$R_{15}^{SL}(3 \exp(i\pi/2))$	$0 + 1.0856797027741987814423624 \times 10^{-8} i$
	Total	$-4.3427565882578658829684295892 - 0.51744555572628341890753115113225 i$
	TS	$0 - 52.07235660935681329352406137393 i$
30	$R_{30}^{SL}(3 \exp(i\pi/2))$	$0 + 52.044472351023649035874440121314 i$
	Total	$-4.3427565882578658829684295892 - 0.51744555572628341890753115113225 i$
	TS	$0 - 6.4908409843349435181620453 \times 10^{25} i$
50	$R_{50}^{SL}(3 \exp(i\pi/2))$	$0 + 6.4908409843349435181620453 \times 10^{25} i$
	Total	$-4.3427565882578658829684295892 - 0.51744555572628341890753115113225 i$
	$\ln \Gamma(3 \exp(i\pi/2))$	$-4.3427565882578658829684295892 - 0.51744555572268341890753115113225 i$



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The author states that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

Reference

1. Kowalenko, V. Exact Values of the Gamma Function from Stirling’s Formula. *Mathematics* 2020, 8, 1058. [[CrossRef](#)]

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