

*In memory of Justynka, my wife*

# FORMULAS

'The laws of nature are but the mathematical thoughts of God.'  
Euclid

FORMULA No.

**D504**

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We are not mathematicians, but we love mathematics and create formulas ourselves.

'No other science boosts the faith in the strength of the human spirit like mathematics.'  
Hugo Steinhaus

$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{[(7 \times k^2 + 16 \times k + 9) \times k! + 6 \times k^3 + 12 \times k^2 + 3 \times k - 3] \times k! \times 2^{k+2}}{(2 \times k + 3)!} = 5 \times (\pi - 2)$$

**NEW MATHEMATICAL FORMULA DAILY**