

In memory of Justynka, my wife

# FORMULAS

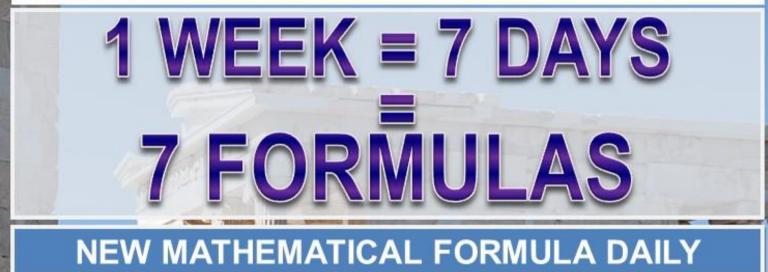
'The laws of nature are but the mathematical thoughts of God.'

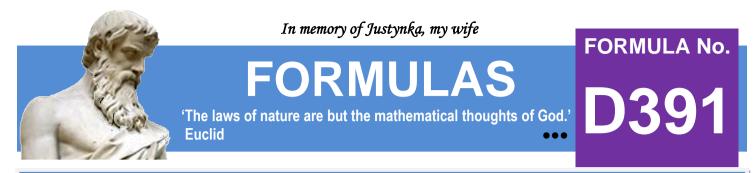
FORMULA No.

www.and-just-math.com

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

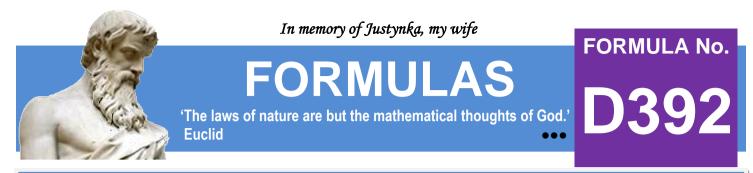




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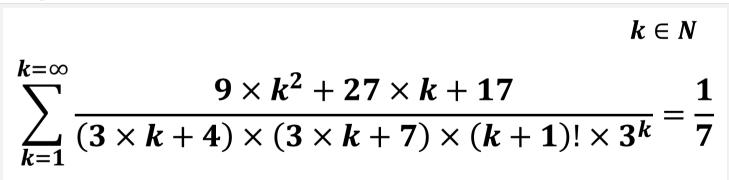
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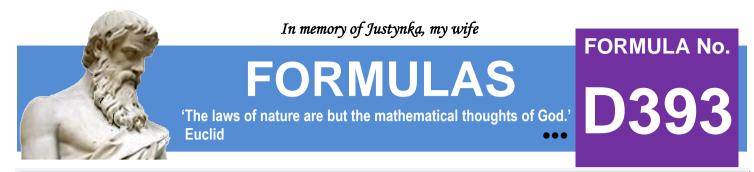
$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 - 1}{k!^2 \times 5^{2 \times k}} = 1$$



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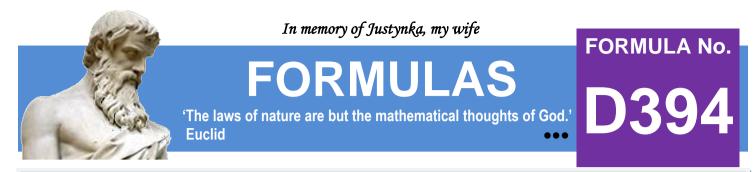




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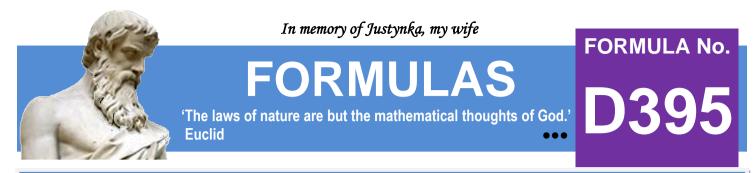
$$\sum_{k=1}^{k=\infty} \frac{(7 \times k + 9) \times 5^{k-1}}{7^k \times (k+2)!} = \frac{1}{2}$$



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$$\sum_{k=1}^{k=\infty} \frac{\left(2 \times 7^k - 7 \times 3^{k-1} - 3^k\right) \times 3^{k-1}}{7^{2 \times k}} = \frac{1}{4}$$

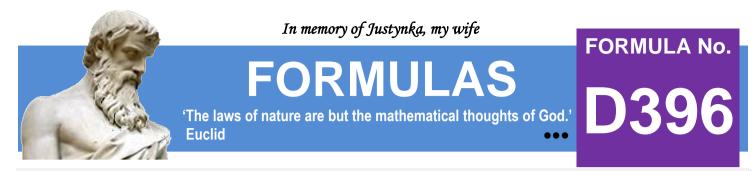


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$$k \in N$$

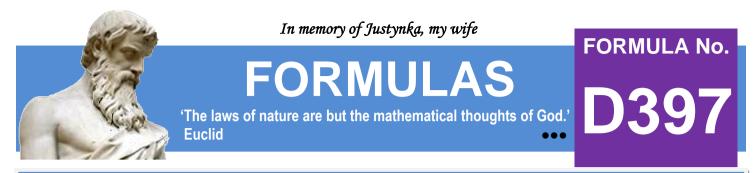
$$\sum_{k=1}^{k=\infty} \frac{k \times [3 \times (k+2) \times k! + 7]}{(k+1)! \times (3 \times k! + 7) \times [3 \times (k+1)! + 7]} = \frac{1}{10}$$



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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+4\times k+1\right)\times 2^k}{(k+1)!\times (k+3)!} = \frac{1}{3}$$



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$$k \in N$$
$$\sum_{k=1}^{k=\infty} \frac{[13 \times (k+1)^2 \times (3 \times k! - 2) - 2 \times k] \times k!}{(13 \times k! - 8) \times [13 \times (k+1)! - 8] \times [13 \times (k+2)! - 8]} = \frac{1}{90}$$

We invite you every week and every day to our website www.and-just-math.com

> Thanks for: Photo nonbirinonko z Pixabay Photo Gordon Johnson z Pixabay Photo lange-adrian z Pixabay