In memory of Justynke, my wife

FORMULA No.

W24

FORMULAS

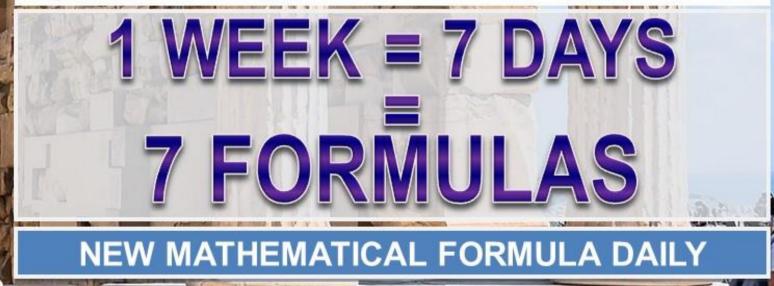
'The laws of nature are but the mathematical thoughts of God.'

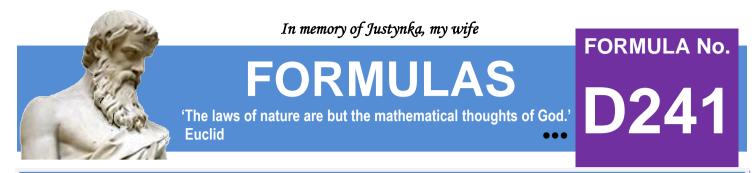
Euclid

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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

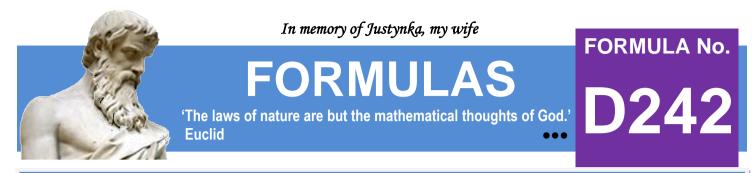




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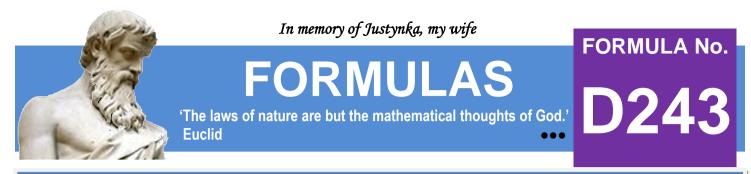
$$\sum_{k=1}^{k=\infty} \frac{(3 \times k - 1) \times 7^{k-1}}{3^k \times (k+2)!} = \frac{1}{2}$$



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$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+2)^6 - (k+1)^5}{(k+2)! \times [(k+1) \times (k+2)]^5 \times 2^{k-6}} = 1$$

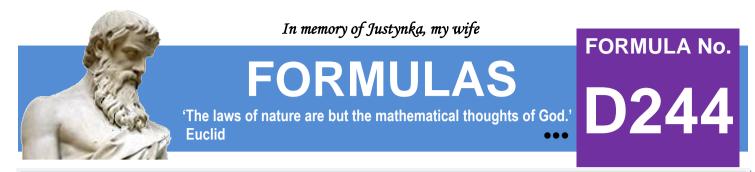


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$$k \in N$$

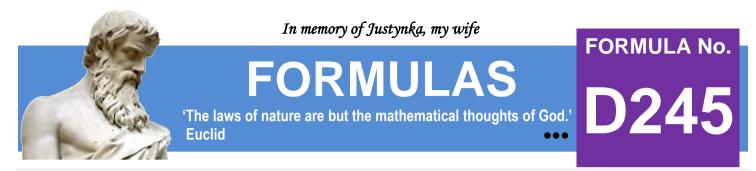
$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 + 45 \times k + 53}{(3 \times k + 7) \times (3 \times k + 10) \times (k + 2)! \times 3^k} = \frac{1}{20}$$



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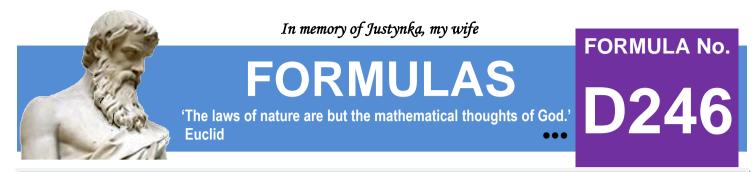
$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1)^{k-1} - k^{k-2}}{k^{k-2} \times (k+1)^{k-1} \times 3^k} = 1$$



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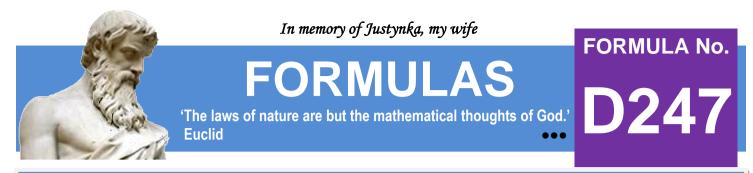
$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 7 \times k - 1) \times 7^{k-1}}{(k+1)! \times (k+6)!} = \frac{1}{720}$$



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$$\sum_{k=1}^{k=\infty} \frac{3 \times k^2 + 5 \times k + 3}{k \times (k+1) \times (k+1)! \times 3^k} = 1$$



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 $k \in N$

$$\sum_{k=1}^{k=\infty} \frac{[19 \times (k+1)^2 \times (3 \times k! - 2) - 2 \times k] \times k!}{(19 \times k! - 12) \times [19 \times (k+1)! - 12] \times [19 \times (k+2)! - 12]} = \frac{1}{182}$$

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