In memory of Justynke, my wife

# FORMULAS

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

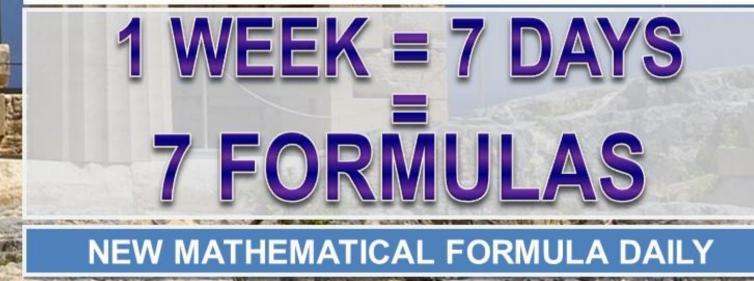
Euclid

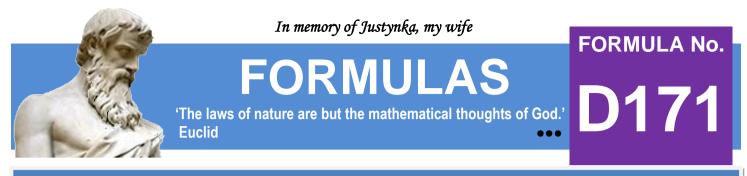
# FORMULA No.

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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



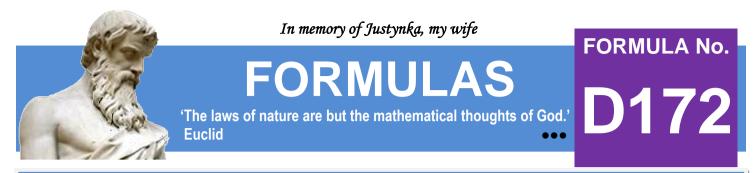


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$$k \in N$$

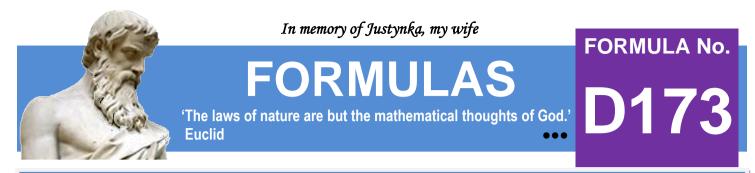
$$\sum_{k=1}^{k=\infty} \frac{25 \times k^2 + 275 \times k + 749}{(5 \times k + 26) \times (5 \times k + 31) \times (k + 5)! \times 5^{k-1}} = \frac{1}{744}$$



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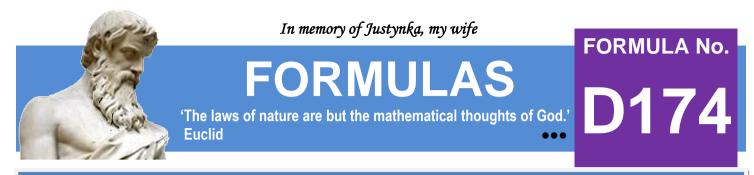
$$\sum_{k=1}^{k=\infty} \frac{(5 \times k + 18) \times 7^{k-1}}{5^{k-1} \times (k+5)!} = \frac{1}{24}$$



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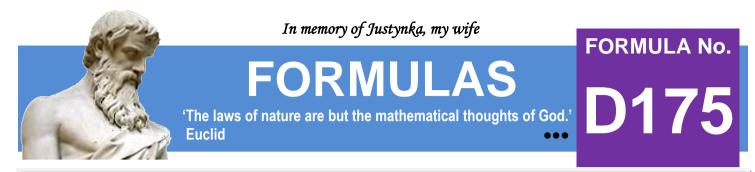
$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+2)^6 - (k+1)^5}{(k+2)! \times [(k+1) \times (k+2)]^5 \times 3^k} = \frac{1}{64}$$



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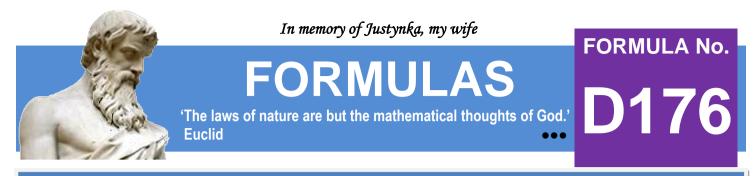
$$\sum_{k=1}^{k=\infty} \frac{k \times (k+2)! + 1}{[(k+1)! - 1] \times [(k+2)! - 1]} = 2$$



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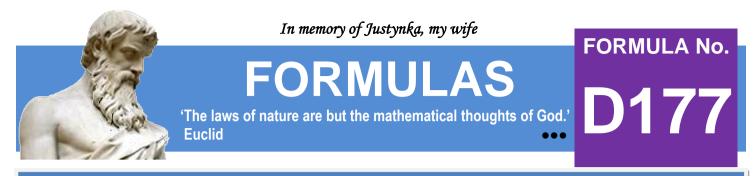
$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1)^{k-2} - k^{k-3}}{k^{k-3} \times (k+1)^{k-2} \times 2^k} = 1$$



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



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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k!^2 \times k \times [2 \times (k+1)! - k - 2]}{[8 \times (k+1)!^2 - 2 \times (k+1)! + 1] \times [8 \times k!^2 - 2 \times k! + 1]} = \frac{1}{56}$$

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