In memory of Justynke, my wife

FORMULAS

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

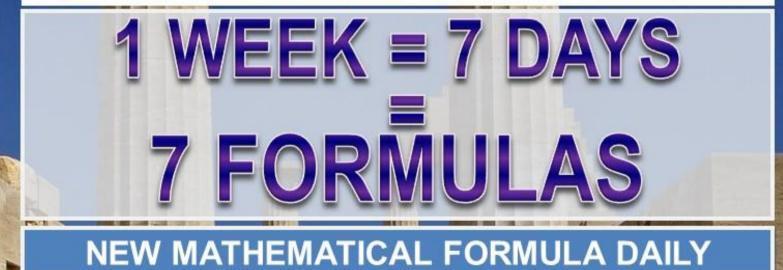
Euclid

FORMULA No.

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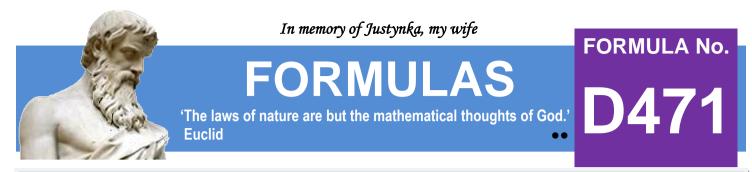
We are not mathematicians, but we love mathematics and create formulas ourselves.

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



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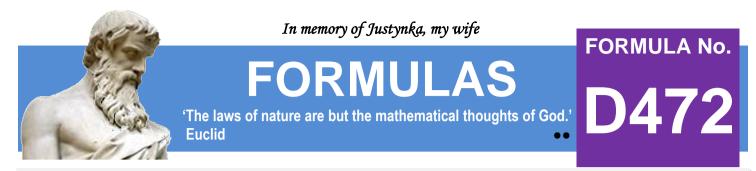
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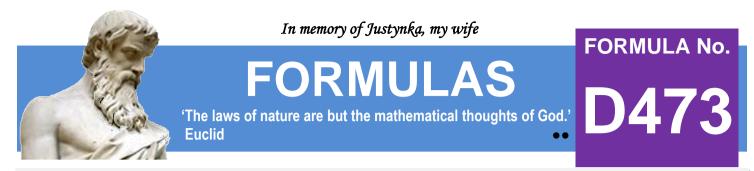
$$\sum_{k=1}^{k=\infty} \frac{3 \times k + 2}{3^k \times (k+1)!} = 1$$



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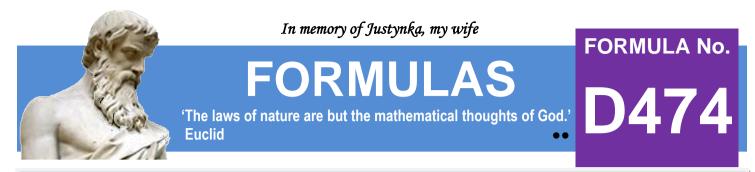
$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+k+2\right)\times 2^k}{k\times (k+1)\times (k+2)!} = 1$$



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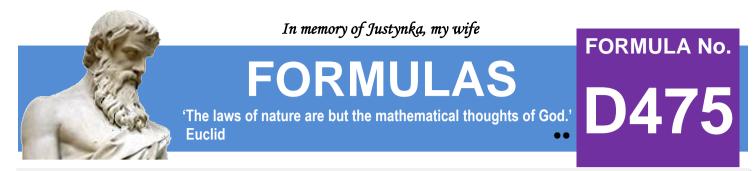
$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times k - 64}{(k+7)^2 \times (k+8)^2} = 0$$



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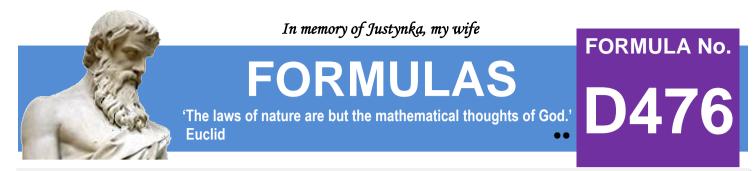
$$\sum_{k=1}^{k=\infty} \frac{7^k + 6 \times k \times 7^{k-1} + 1}{k \times (k+1) \times (7^{k-1}+1) \times (7^k+1)} = \frac{1}{2}$$



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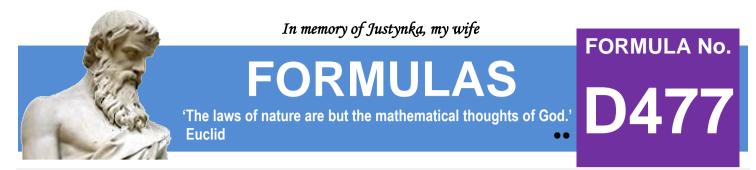
$$\sum_{k=1}^{k=\infty} sin\left(\frac{\left(3 \times k^2 + 5 \times k - 1\right) \times \pi}{4 \times 3^k \times (k+2)!}\right) \qquad \qquad k \in \mathbb{N}$$
$$\times cos\left(\frac{\left(3 \times k^2 + 7 \times k + 1\right) \times \pi}{4 \times 3^k \times (k+2)!}\right) = \frac{\sqrt{2}}{4}$$



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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 13 \times k^2 + 46 \times k + 29}{(k+1)! \times (k+7)!} = \frac{6}{7!}$$



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$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{3\times\pi}{8\times k\times (k+1)}\right)}{sin\left(\frac{(4\times k+1)\times\pi}{8\times (k+1)}\right)\times sin\left(\frac{(4\times k-3)\times\pi}{8\times k}\right)}$$
$$= 1+\sqrt{2}$$

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