In memory of Justynka, my wife

FORMULA No.

W37

FORMULAS

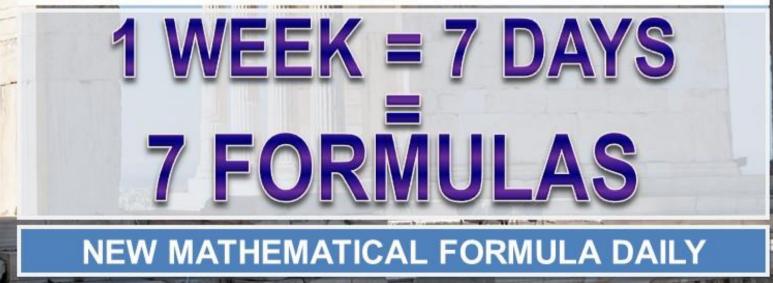
'The laws of nature are but the mathematical thoughts of God.'

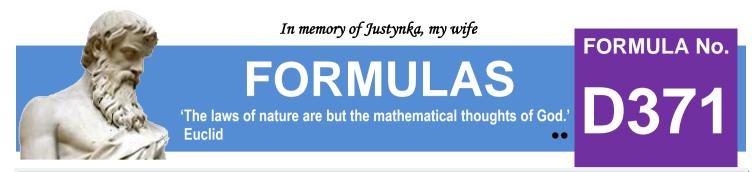
Euclid

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

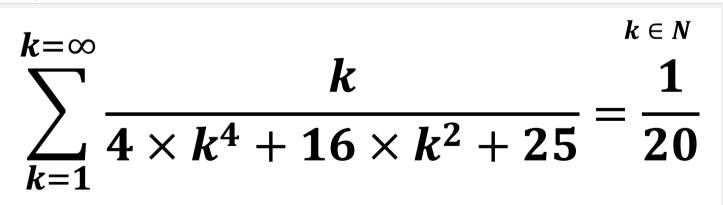
'No other science boosts the faith in the strength of the human spirit like mathematics.' Hugo Steinhaus

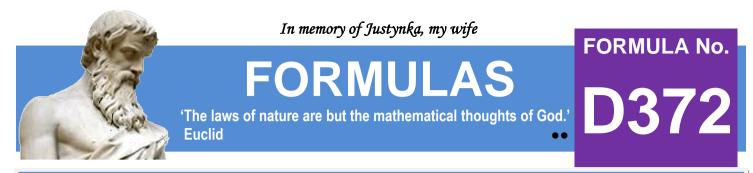




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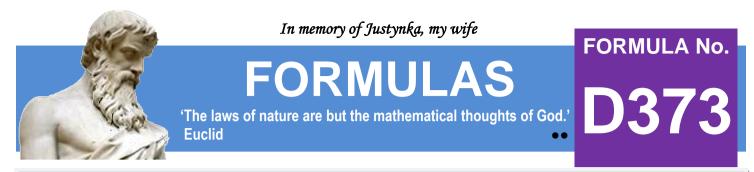




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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times 6^k}{(k+5)!} = \frac{1}{20}$$

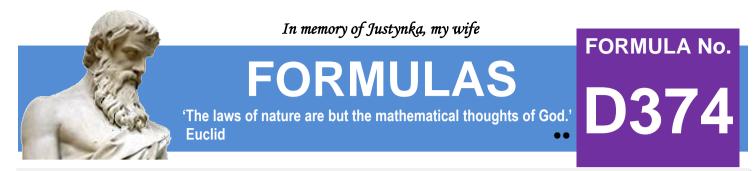


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$$k \in N$$

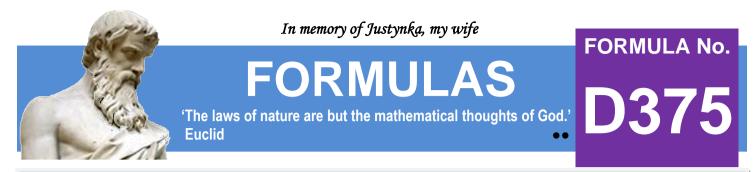
$$\sum_{k=1}^{k=\infty} \frac{7 \times k! \times (k^2 + k + 1) + 2^{k+3}}{(7 \times k \times k! + 2^{k+3}) \times [7 \times (k+1) \times (k+1)! + 2^{k+4}]} = \frac{1}{23}$$



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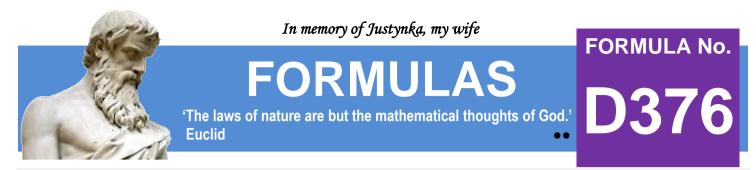
$$\prod_{k=1}^{k=\infty} \frac{(k+4) \times (k+8)}{(k+6)^2} = \frac{15}{28}$$



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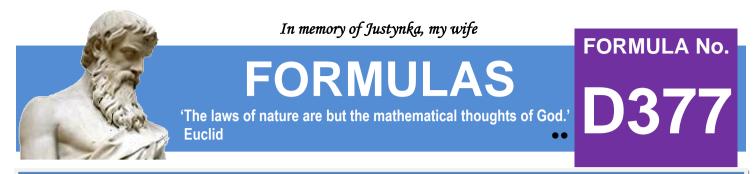
$$\sum_{k=1}^{k=\infty} \frac{12 \times k^2 - 10 \times k - 1}{(10 \times k - 9) \times (10 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{20}$$



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$$\prod_{k=1}^{k=\infty} \left(1 - 4 \times \sin^2\left(\frac{\pi}{24 \times 5^{k-1}}\right) + 3, 2 \times \sin^4\left(\frac{\pi}{24 \times 5^{k-1}}\right) \right)$$
$$= \frac{3 \times \left(3 \times \sqrt{2} + \sqrt{6} + 2\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{5 \times \pi}$$



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$$\sum_{k=1}^{k=\infty} \frac{k}{(4 \times k^2 - 1)^2} = \frac{1}{8}$$

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