In memory of Justynke, my wife

FORMULA No.

W35

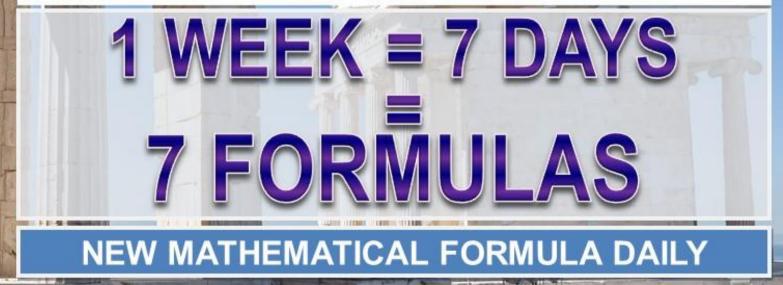
FORMULAS

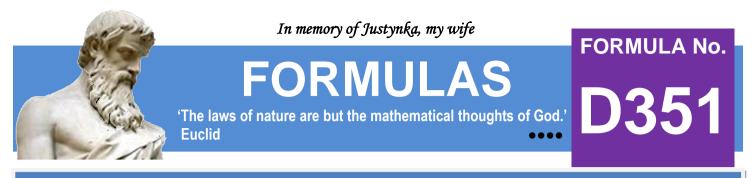
'The laws of nature are but the mathematical thoughts of God.'

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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

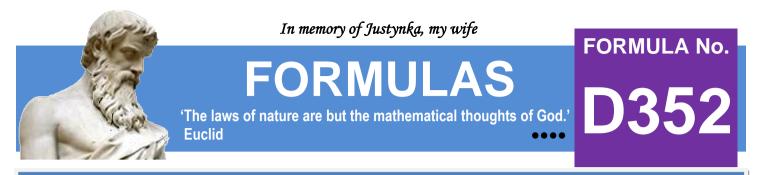




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 $k \in N$ $\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 320 \times k^3 + 860 \times k^2 + 1384 \times k + 891}{(2 \times k + 1) \times (2 \times k + 3) \times (4 \times k + 5) \times (4 \times k + 7) \times (4 \times k + 9) \times (4 \times k + 11)} = \frac{105 \times \pi - 304}{840}$

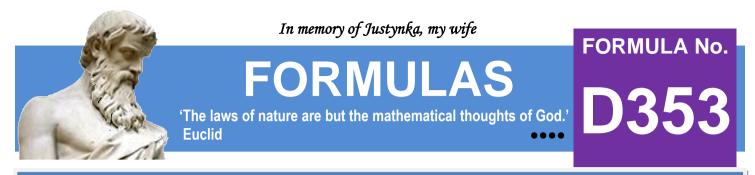


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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 15 \times k^3 + 108 \times k^2 + 404 \times k + 576}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (k+5) \times (k+6)} = \frac{6 \times \pi^2 - 59}{18}$$

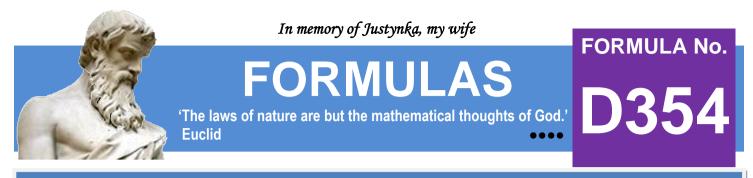


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 $k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k^6 + 18 \times k^5 + 121 \times k^4 + 460 \times k^3 + 1150 \times k^2 + 1500 \times k + 625}{k^2 \times (k+1)^2 \times (k+4)^2 \times (k+5)^2} = \frac{\pi^2}{6}$$

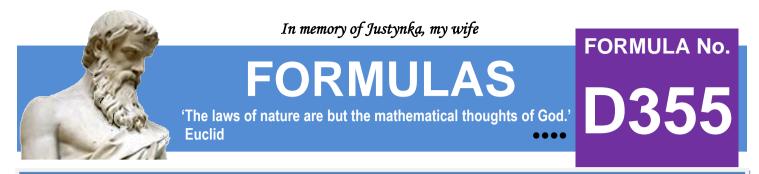


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 $k \in N$

$$\sum_{k=1}^{k=\infty} \frac{(36 \times k^5 + 96 \times k^4 + 181 \times k^3 + 226 \times k^2 + 130 \times k + 24) \times (2 \times k)!}{(k+1)^2 \times (2 \times k+1) \times (2 \times k+3) \times (3 \times k-2) \times (3 \times k+1) \times k!^2 \times 2^{4 \times k+3}} = \frac{\pi - 3}{3}$$

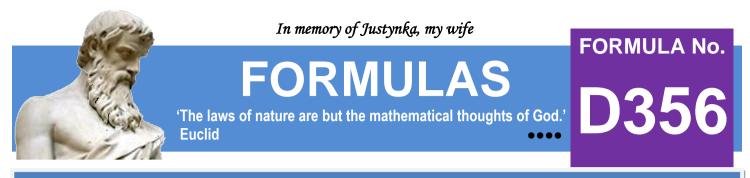


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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^6 + 192 \times k^5 + 112 \times k^4 + 480 \times k^3 + 796 \times k^2 + 444 \times k + 81}{(2 \times k - 1)^2 \times (2 \times k + 1)^4 \times (2 \times k + 3)^2} = \frac{\pi^2}{8}$$

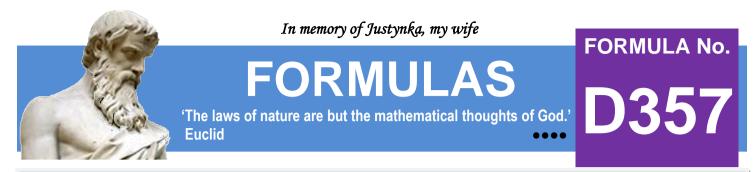


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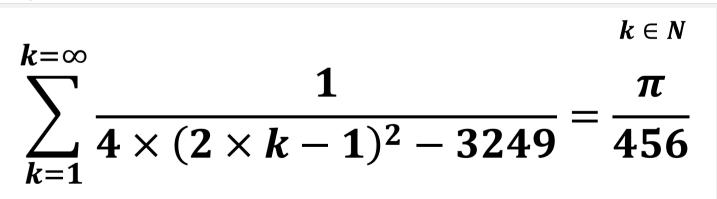
 $k \in N$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 + 896 \times k^3 + 2240 \times k^2 + 2152 \times k + 363}{(4 \times k + 7) \times (4 \times k + 11) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$



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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