In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W14

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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

1 WEEK = 7 DAYS = 7 FORMULAS

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D141

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left(4 \times k^5 + 64 \times k^4 + 333 \times k^3 + 707 \times k^2 + 650 \times k + 216\right) \times (2 \times k)!}{(k+1)^2 \times (k+2) \times (k+3) \times (2 \times k + 1) \times (2 \times k + 3) \times k!^2 \times 2^{4 \times k + 3}} = \frac{\pi - 3}{3}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 170 \times k^3 + 529 \times k^2 + 1012 \times k + 784}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 2) \times (5 \times k + 7)} = \frac{61 - 6 \times \pi^2}{36}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^8 + 14 \times k^7 + 111 \times k^6 + 548 \times k^5 + 1621 \times k^4 + 2790 \times k^3 + 2673 \times k^2 + 1296 \times k + 243}{k^2 \times (k+1)^2 \times (k+2)^4 \times (k+3)^4} = \frac{4 \times \pi^2 - 33}{48}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 192 \times k^3 + 723 \times k^2 - 217 \times k - 3773}{(k+6) \times (k+7) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(441 - 16 \times k^2)} = \frac{21 \times \pi - 4}{3528} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 145 \times k^3 + 469 \times k^2 + 992 \times k + 784}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 2) \times (5 \times k + 7)} = \frac{6 \times \pi^2 - 59}{18}$$

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We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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