In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W26

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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.

D261

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{400 \times k^4 + 80 \times k^3 + 599 \times k^2 + 523 \times k + 135}{(5 \times k - 2) \times (5 \times k + 3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(7 \times k^2 + 17 \times k + 10) \times k! + 2 \times k^3 + 4 \times k^2 + k - 1] \times k! \times 2^k}{(2 \times k + 3)!} = \pi - 2$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^4 + 308 \times k^3 + 841 \times k^2 + 1450 \times k + 1024}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (7 \times k + 1) \times (7 \times k + 8)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{36 \times k^4 + 96 \times k^3 + 241 \times k^2 + 229 \times k + 49}{(3 \times k + 4) \times (3 \times k + 7) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 441} = \frac{\pi}{168} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 - 589 \times k^2 - 605 \times k - 621}{k \times (k+1) \times (16 \times k^2 - 729) \times (16 \times k^2 - 529)} = \frac{\pi}{200}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left(4 \times k^5 + 24 \times k^4 + 77 \times k^3 + 141 \times k^2 + 88 \times k + 24\right) \times (2 \times k)!}{k \times (k+1)^3 \times (2 \times k + 1) \times (2 \times k + 3) \times k!^2 \times 2^{4 \times k + 3}} = \frac{\pi - 3}{3}$$

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

Thanks for:
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