In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W34

www.and-just-math.com

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.

D341

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^5 + 51 \times k^4 + 109 \times k^3 + 156 \times k^2 + 192 \times k + 64}{(3 \times k - 2) \times (3 \times k + 1) \times (k + 2)^3 \times (k + 3)^3 \times (k + 4)^3} = \frac{533 - 54 \times \pi^2}{54}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 18 \times k^3 + 141 \times k^2 + 540 \times k + 784}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (k+6) \times (k+7)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 121} = \frac{11 \times \pi + 4}{968} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(12 \times k^2 + 29 \times k + 17) \times k! + 4 \times k^3 + 8 \times k^2 + 2 \times k - 2] \times k! \times 2^{k+2}}{(2 \times k + 3)!} = 7 \times (\pi - 2)$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{784 \times k^4 - 112 \times k^3 + 767 \times k^2 + 631 \times k + 135}{(7 \times k - 4) \times (7 \times k + 3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 192 \times k^3 + 803 \times k^2 + 823 \times k + 147}{(k+6) \times (k+7) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 69 \times k^3 + 259 \times k^2 + 531 \times k + 441}{(3 \times k + 4) \times (3 \times k + 7) \times (k + 2)^2 \times (k + 3)^2} = \frac{2 \times \pi^2 - 15}{12}$$

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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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