In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W19

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.

D191

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^4 + 259 \times k^3 + 736 \times k^2 + 1436 \times k + 1024}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (7 \times k + 1) \times (7 \times k + 8)} = \frac{6 \times \pi^2 - 59}{18}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^6 + 704 \times k^5 + 2672 \times k^4 + 6624 \times k^3 + 13148 \times k^2 + 11676 \times k + 2401}{(2 \times k - 1)^2 \times (2 \times k + 1)^2 \times (2 \times k + 5)^2 \times (2 \times k + 7)^2} = \frac{\pi^2}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1936 \times k^4 - 3520 \times k^3 + 2491 \times k^2 - 133 \times k + 15}{(4 \times k - 3) \times (11 \times k - 10) \times (11 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(\pi^2-6)\times k^2+12\times(\pi^2-5)\times k+36\times\pi^2-150]\times 6^{k-1}}{(k+5)^2\times(k+6)^2\times\pi^{2\times k}}=\frac{1}{36}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 48 \times k^3 + 127 \times k^2 + 157 \times k + 60}{(k+1) \times (k+2) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 - 64 \times k^3 - 2404 \times k^2 + 16 \times k - 621}{(4 \times k^2 - 1) \times (16 \times k^2 - 729) \times (16 \times k^2 - 529)} = \frac{\pi}{200}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 4761} = \frac{\pi}{552} \qquad k \in N$$

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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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