In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W24

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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D241

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 361} = \frac{19 \times \pi + 4}{2888} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 + 1408 \times k^3 + 4160 \times k^2 + 7112 \times k + 4851}{(4 \times k + 3) \times (4 \times k + 5) \times (4 \times k + 7)^2 \times (4 \times k + 9) \times (4 \times k + 11)} = \frac{105 \times \pi - 304}{840}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 190 \times k^3 + 691 \times k^2 + 1488 \times k + 1296}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 4) \times (5 \times k + 9)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{36 \times k^4 - 24 \times k^3 + 61 \times k^2 + 19 \times k + 4}{(3 \times k - 1) \times (3 \times k + 2) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 128 \times k^3 + 339 \times k^2 - 293 \times k - 1925}{(k+4) \times (k+5) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(196 \times k^5 + 336 \times k^4 + 317 \times k^3 + 343 \times k^2 + 190 \times k + 24) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3) \times (7 \times k - 6) \times (7 \times k + 1) \times k!^2 \times 2^{4 \times k + 3}} = \frac{\pi - 3}{3}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 1089} = \frac{\pi}{264} \qquad k \in N$$

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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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