In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W05

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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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D051

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2 - 7 \times k + 3\right) \times 11^{k-1}}{k \times (k+1) \times (k+3)!} = \frac{1}{6} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{\left(k^2 + 6 \times k + 3\right) \times 2^{k+2}}{(k+1)! \times (k+5)!} = \frac{1}{15} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 64 \times k^3 + 316 \times k^2 + 384 \times k + 135}{(2 \times k + 1) \times (2 \times k + 3) \times (4 \times k - 3) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^k \times sin^3\left(\frac{\pi}{3^{k+1}}\right) \times (k+5)^2 + \left[\pi - 3^{k+1} \times sin\left(\frac{1}{3^{k+1}}\right)\right] \times (k+4)}{(k+3)^2 \times (k+4)^2 \times (k+5)^2} = \frac{2 \times \pi - 3 \times \sqrt{3}}{3200}$$

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$$\prod_{k=1}^{k=\infty} \frac{64 \times k^2 \times (36 \times k^2 - 1)}{9 \times (16 \times k^2 - 1)^2} = \frac{3 \times \pi}{8} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{\left(25 \times k^2 - 49\right) \times 7^{2 \times k - 2}}{k!^2 \times 5^{2 \times k}} = 1 \qquad k \in N$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \frac{\left[\left(2 \times {p_{k+1}}^2 + 4 \times p_{k+1} + 1\right) \times p_{k+2} - {p_{k+1}}^2\right] \times {p_k}^2}{\left[\left(2 \times {p_k}^2 + 4 \times p_k + 1\right) \times p_{k+1} - {p_k}^2\right] \times p_{k+1} \times p_{k+2}} = \frac{24}{47}$$

p_k *(k-th prime number)*

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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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