In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W50

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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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D501

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

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 5 \times k + 5}{k \times (k+1) \times (k+5)!} = \frac{1}{120} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{[k^3-(k+1)^2]\times\pi}{8\times k!}\right)\times cos\left(\frac{[k^3+(k+1)^2]\times\pi}{8\times k!}\right)=\frac{\sqrt{2}}{4}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2^{k-1} + k \times 2^{k-2} + 3}{k \times (k+1) \times (2^{k-2} + 3) \times (2^{k-1} + 3)} = \frac{2}{7}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k-1) \times k - 1}{k^2 \times (k+1)^2} = 0 \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{k^3 + 11 \times k^2 + 33 \times k + 19}{(k+1)! \times (k+6)!} = \frac{5}{6!} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{7 \times k + 6}{7^k \times (k+1)!} = 1 \qquad k \in N$$

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Thanks for:
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