In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W21

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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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FORMULA No.

D211

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left[1-\frac{11\times k+10}{11\times(k+1)\times(10\times 11^{k-1}\times k!+1)}\right]=\frac{10}{11}$$

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D212

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 56 \times k^3 + 385 \times k^2 + 1392 \times k + 1936}{(2 \times k + 9) \times (2 \times k + 11) \times (k + 2)^2 \times (k + 3)^2 \times (k + 4)^2} = \frac{6 \times \pi^2 - 59}{18}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times (k+3) \times p_{k+2} \times p_{k+4} - (k+2) \times p_{k+1} \times p_{k+3}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times (k+3)!} = \frac{1}{63}$$

p_k *(k-th prime number)*

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$$k \in N$$

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

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D215

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{2^{k+1} \times k!} = e^{\frac{1}{2}} - \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[2 \times (k^2 - k - 1) \times k! - k^2 + k - 1] \times k!}{[2 \times (k-1)! + 1] \times (2 \times k! + 1) \times [2 \times (k+1)! + 1]} = \frac{1}{6}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 5) - p_k \times (p_{k+1} + 5) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 5) \times (p_{k+2} + 5) \times (p_{k+3} + 5)} = \frac{11}{80}$$

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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