In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W02

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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.

D021

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(k-3)\times(p_k!-1)\times p_{k+1}!-5\times(p_{k+1}!-p_k!)]\times 5^{k-1}}{(k+2)!\times p_k!\times p_{k+1}!}=\frac{1}{4}$$

p_k *(k-th prime number)*

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D022

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+1} \times p_{k+2}! - p_k \times p_{k+1}!}{p_k \times p_{k+1} \times 2^k \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{12}$$

p_k *(k-th prime number)*

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FORMULA No.

D023

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^4 + 10 \times k^3 + 19 \times k^2 + 15 \times k + 4}{k \times (k+1)^3 \times (k+2)^2} = \frac{4 \times \pi^2 - 21}{12}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D024

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(p_k + 1) \times p_{k+1} \times (k+2) - 4 \times p_k] \times 2^{2 \times k+2}}{p_k \times p_{k+1} \times (k+2)!} = e^4 - 1$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D025

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(15 \times k^2 + 34 \times k + 19) \times k! + 14 \times k^3 + 28 \times k^2 + 7 \times k - 7] \times k! \times 2^{k+2}}{(2 \times k + 3)!}$$

$$= 11 \times (\pi - 2)$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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Euclid

FORMULA No.
D026

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{56 \times \left[(k+4) \times {p_{k+1}}^5 - {p_k}^5\right] - (k+4)! \times \left({p_{k+1}}^5 - {p_k}^5\right)}{{p_k}^5 \times {p_{k+1}}^5 \times (k+4)!} = \frac{1}{24}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D027

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$$\sum_{k=1}^{k=\infty} \frac{k \times (p_k + 7) + p_k - p_{k+1}}{(k+1)!} = 9 \qquad k \in N$$

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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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