In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W02

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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FORMULA No.

D021

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$$k \in N$$

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

p_k *(k-th prime number)*

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D022

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times ({p_{k+2}}^2 - {p_{k+1}}^2) \times {p_{k+3}}^2 - p_k \times p_{k+1} \times ({p_{k+3}}^2 - {p_{k+2}}^2)}{p_k \times {p_{k+1}}^2 \times {p_{k+2}}^2 \times {p_{k+3}}^2} = \frac{11}{75}$$

p_k (k-th prime number)

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FORMULA No.

D023

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + {p_k}^2 + {p_{k+1}}^2 + 11 \times (p_k + p_{k+1}) + 10]}{p_k \times (p_k + 1) \times (p_k + 10) \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+1} + 10)} = \frac{1}{72}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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FORMULA No.

D024

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k{}^2 \times p_{k+1}{}^2 + p_k{}^2 - p_{k+1}{}^2) \times k^2 + 2 \times (p_k{}^2 - 1) \times p_{k+1}{}^2 \times k + (p_k{}^2 - 1) \times p_{k+1}{}^2}{k^2 \times (k+1)^2 \times p_k{}^2 \times p_{k+1}{}^2} = \frac{2 \times \pi^2 - 3}{12}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D025

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times (k+1) \times (k+2) \times p_{k+1} \times p_{k+2} - (k+1)^2 \times \left(k^2 + 5 \times k - 6\right) \times p_{k+1} + (k+2) \times (k+3) \times \left(k^2 + 3 \times k - 10\right) \times p_{k+2}}{(k+1)^2 \times (k+2)^2 \times (k+3) \times p_{k+1} \times p_{k+2}} = \frac{1}{6}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D026

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [77 \times p_k \times p_{k+1} - 10 \times (p_k + p_{k+1})]}{{p_k}^2 \times {p_{k+1}}^2} = 36$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D027

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$$k \in N$$

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

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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