In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W10

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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.

D101

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$$\sum_{k=1}^{k=\infty} \frac{p_{k+2} \times \left(p_k^{\frac{1}{p_k}} - 1 \right) - p_k \times \left(p_{k+1}^{\frac{1}{p_{k+1}}} - 1 \right)}{p_k \times p_{k+1} \times p_{k+2}} = \frac{\sqrt{2} - 1}{6} \qquad k \in N$$

p_k *(k-th prime number)*

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D102

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k-1) \times p_{k+1} + (k+4) \times p_k + 3}{(k+1) \times (k+2) \times (2 \times p_k + 3) \times (2 \times p_{k+1} + 3)} = \frac{3}{14}$$

p_k *(k-th prime number)*

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FORMULA No.

D104

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$$k \in N$$

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

p_k *(k-th prime number)*

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D105

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times (p_k{}^2 + 1) \times p_{k+1}{}^2 \times p_{k+2} - (p_{k+2} - p_{k+1}) \times p_k{}^3}{p_k{}^3 \times p_{k+1}{}^3 \times p_{k+2}} = \frac{13}{24}$$

p_k *(k-th prime number)*

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FORMULA No.

D106

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times k + 2 \times (p_{k+2} - p_k) \times p_{k+1} + p_{k+2}}{p_{k+1} \times p_{k+2} \times (2 \times p_k + k) \times (2 \times p_{k+1} + k + 1)} = \frac{1}{15}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times (p_k \times 2^{p_{k+1}+p_{k+2}} - 2 \times p_{k+1} \times 2^{p_k+p_{k+2}} + p_{k+2} \times 2^{p_k+p_{k+1}})}{2^{p_k+p_{k+1}+p_{k+2}}} = \frac{5}{8}$$

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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