In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W33

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times k + 9 \times (p_{k+2} - p_k) \times p_{k+1} + p_{k+2}}{p_{k+1} \times p_{k+2} \times (9 \times p_k + k) \times (9 \times p_{k+1} + k + 1)} = \frac{1}{57}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + {p_k}^2 + {p_{k+1}}^2 + 6 \times (p_k + p_{k+1}) + 5]}{p_k \times (p_k + 1) \times (p_k + 5) \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+1} + 5)} = \frac{1}{42}$$

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - (k-4) \times p_{k+1} + (k+7) \times p_k + 30}{(k+1) \times (k+2) \times (p_k + 6) \times (p_{k+1} + 6)} = \frac{7}{16}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[k \times (p_k! - 1) \times p_{k+1}! - 5 \times (p_{k+1}! - p_k!)] \times 5^k}{(k+5)! \times p_k! \times p_{k+1}!} = \frac{1}{48}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (k+1) \times \left(p_k \times 7^{3-p_k} - 2 \times p_{k+1} \times 7^{3-p_{k+1}} + p_{k+2} \times 7^{3-p_{k+2}} \right) = 25$$

p_k *(k-th prime number)*

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Thanks for:
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