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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$$k \in N$$

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

p_k *(k-th prime number)*

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D212

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(4 \times {p_k}^2 + 7 \times {p_{k+2}}^2) \times {p_{k+1}}^2 - 11 \times {p_k}^2 \times {p_{k+2}}^2] \times 2^{2 \times k}}{{p_k}^2 \times {p_{k+1}}^2 \times {p_{k+2}}^2 \times 7^k} = \frac{5}{9}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+3) \times {p_{k+3}}^{1+p_{k+3}} - {p_{k+2}}^{1+p_{k+2}}}{{p_{k+2}}^{1+p_{k+2}} \times {p_{k+3}}^{1+p_{k+3}} \times (k+3)!} = \frac{1}{93750}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + {p_k}^2 + {p_{k+1}}^2 + 5 \times (p_k + p_{k+1}) + 4]}{p_k \times (p_k + 1) \times (p_k + 4) \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+1} + 4)} = \frac{1}{36}$$

p_k *(k-th prime number)*

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D215

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{p_k \times p_{k+1} - k \times p_{k+1} + (k+3) \times p_k + 2}{(k+1) \times (k+2) \times (p_k + 2) \times (p_{k+1} + 2)} = \frac{3}{8}$$

p_k *(k-th prime number)*

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D216

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+4) \times (p_k! - 1) \times p_{k+1}! - p_{k+1}! + p_k!}{(k+5)! \times p_k! \times p_{k+1}!} = \frac{1}{240}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} \times k + p_{k+1} - p_k) \times (3^{p_k} - 1) \times 3^{p_{k+1}} - p_k \times (3^{p_{k+1}} - 3^{p_k})}{p_k \times p_{k+1} \times 3^{p_k + p_{k+1}} \times (k+1)!} = \frac{4}{9}$$

p_k *(k-th prime number)*

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Thanks for:
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