In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W12

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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.

D121

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times (k+3) \times p_{k+2} \times p_{k+8} - (k+2) \times p_{k+1} \times p_{k+7}}{p_{k+1} \times p_{k+2} \times p_{k+7} \times p_{k+8} \times (k+3)! \times 2^k} = \frac{1}{171}$$

p_k *(k-th prime number)*

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D122

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [p_{k+2}{}^2 \times p_{k+3}{}^2 \times ln(p_{k+1}) - 2 \times p_k \times p_{k+1} \times p_{k+3}{}^2 \times ln(p_{k+2}) + p_k \times p_{k+1}{}^2 \times p_{k+2} \times ln(p_{k+3})]}{p_k \times p_{k+1}{}^2 \times p_{k+2}{}^2 \times p_{k+3}{}^2} = \frac{ln(3)}{18}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times [p_{k+1} \times p_{k+2} + 3 \times (p_{k+1} + p_{k+2}) \times ln3] - p_{k+1} \times p_{k+2} \times \left(p_{k+2} \times 3^{\frac{3}{p_{k+1}}} - p_{k+1} \times 3^{\frac{3}{p_{k+2}}} \right)}{{p_{k+1}}^2 \times {p_{k+2}}^2} = \frac{ln3 - 2}{3}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[p_k \times p_{k+1} \times ln(p_{k+1}) - {p_{k+2}}^2 \times ln(p_k)] \times k + [p_{k+1} \times ln(p_{k+1}) - {p_{k+1}}^2 + {p_{k+2}}^2] \times p_k}{p_k \times {p_{k+1}}^2 \times {p_{k+2}}^2} = \frac{2 - ln(2)}{18}$$

p_k *(k-th prime number)*

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D125

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+5) \times ({p_{k+2}}^2 \times p_{k+3} - {p_{k+1}}^3) + {p_{k+2}}^2 \times p_{k+3}}{(k+5) \times (k+6) \times {p_{k+1}}^3 \times {p_{k+2}}^3 \times p_{k+3}} = \frac{1}{810}$$

p_k (k-th prime number)

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times k + 7 \times (p_{k+2} - p_k) \times p_{k+1} + p_{k+2}}{p_{k+1} \times p_{k+2} \times (7 \times p_k + k) \times (7 \times p_{k+1} + k + 1)} = \frac{1}{45}$$

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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