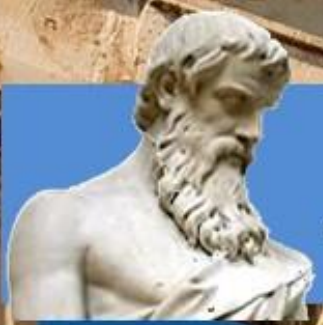

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W06

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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

In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D061

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(k+1) \times (p_k! - 1) \times p_{k+1}! - 2 \times (p_{k+1}! - p_k!)] \times 2^k}{(k+3)! \times p_k! \times p_{k+1}!} = \frac{1}{6}$$

p_k *(k-th prime number)*

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FORMULA No.

D062

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times p_{k+2} \times p_{k+1}! \times p_{k+3}! - p_{k+1} \times (p_{k+3} - p_{k+2}) \times p_{k+2}!^2}{p_{k+1} \times p_{k+2} \times p_{k+2}! \times p_{k+3}!} = \frac{1}{30}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k-7) \times p_{k+1} + (k+10) \times p_k + 36}{(k+1) \times (k+2) \times (2 \times p_k + 9) \times (2 \times p_{k+1} + 9)} = \frac{3}{13}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 3) - p_k \times (p_{k+1} + 3) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 3) \times (p_{k+2} + 3) \times (p_{k+3} + 3)} = \frac{3}{16}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2}{}^2 - p_{k+1} \times p_{k+3}) \times p_{k+3} \times k - p_{k+1} \times p_{k+3}{}^2 + p_{k+1} \times p_{k+2} \times p_{k+4}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times k!} = \frac{4}{15}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+3) \times (p_{k+1} - p_k) \times p_{k+2} + p_k \times p_{k+1}}{p_k \times p_{k+1} \times p_{k+2} \times (k+1)! \times (k+3)} = \frac{5}{36}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [p_k \times p_{k+1} + {p_k}^2 + {p_{k+1}}^2 + 7 \times (p_k + p_{k+1}) + 6]}{p_k \times (p_k + 1) \times (p_k + 6) \times p_{k+1} \times (p_{k+1} + 1) \times (p_{k+1} + 6)} = \frac{1}{48}$$

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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