In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W07

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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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D071

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+6) \times ({p_{k+2}}^2 \times p_{k+3} - {p_{k+1}}^3) + {p_{k+2}}^2 \times p_{k+3}}{(k+6) \times (k+7) \times {p_{k+1}}^3 \times {p_{k+2}}^3 \times p_{k+3}} = \frac{1}{945}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k + 5 \times p_k \times p_{k+1}) \times k + 3 \times p_{k+1} - p_k + 15 \times p_k \times p_{k+1}}{(k+1) \times (k+2) \times (k+3) \times p_k \times p_{k+1}} = 2\frac{7}{12}$$

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [9 \times p_k \times p_{k+1} + 7 \times (p_k + p_{k+1})]}{{p_k}^2 \times {p_{k+1}}^2} = 6\frac{1}{4}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 2) - p_k \times (p_{k+1} + 2) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 2) \times (p_{k+2} + 2) \times (p_{k+3} + 2)} = \frac{8}{35}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+2} \times p_{k+4} - p_{k+1} \times p_{k+3}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times (k+1)! \times 2^k} = \frac{1}{21}$$

p_k *(k-th prime number)*

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$$k \in N$$

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

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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