In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W28

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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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times [p_{k+4} \times p_{k+5} \times (p_{k+3}+p_{k+6}) - p_{k+3} \times p_{k+6} \times (p_{k+4} + p_{k+5})]}{p_{k+3} \times p_{k+4} \times p_{k+5} \times p_{k+6}} = \frac{18}{77}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times (k+4) \times (k+5) \times (k+6) \times {p_k}^2 \times {p_{k+1}}^2 + (k^2+k-2) \times (k+2) \times (k+6) \times {p_{k+1}}^2 - k^2 \times (k+3) \times (k+4) \times {p_k}^2}{k \times (k+1) \times (k+2) \times (k+4) \times (k+5) \times (k+6) \times {p_k}^2 \times {p_{k+1}}^2} = 1$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times (k+3)^4 \times (k+4) \times {p_{k+2}}^4 - (k+1)^4 \times (k^2+6 \times k+5) \times {p_{k+1}}^4}{(k+1)^4 \times (k+2)^4 \times (k+3)^4 \times {p_{k+1}}^4 \times {p_{k+2}}^4} = \frac{5}{104976}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^k \times [(k+2) \times p_{k+3}! - 3 \times p_{k+2}!]}{(k+2)! \times p_{k+2}! \times p_{k+3}!} = \frac{1}{80}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times [p_{k+1} \times p_{k+2} - 2 \times p_{k+1} \times p_{k+3} + p_{k+2} \times p_{k+3} + 7 \times (2 \times p_{k+2} - p_{k+1} - p_{k+3})]}{(p_{k+1} + 7) \times (p_{k+2} + 7) \times (p_{k+3} + 7)} = \frac{7}{60}$$

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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