In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W09

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (k+3) \times p_{k+1} - p_k}{(k+2)! \times (k+3)! \times p_k \times p_{k+1}} = \frac{1}{24}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(3 \times p_k + 7) \times p_{k+1} \times (p_{k+4} - p_{k+2}) \times p_{k+5} - 7 \times p_k \times p_{k+2} \times (p_{k+5} - p_{k+3})}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times p_{k+5}} = \frac{54}{385}$$

p_k *(k-th prime number)*

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times {p_{k+5}}^2 - {p_{k+4}}^2}{{p_{k+4}}^2 \times {p_{k+5}}^2 \times (k+2)!} = \frac{1}{242} \qquad k \in N$$

p_k *(k-th prime number)*

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 81} = \frac{\pi}{72} \qquad k \in N$$

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left\{\frac{2 \times [3 \times k \times (k+1)+1]}{k^3 \times (k+1)^3 + 4}\right\} = arc\,tg(2)$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^5 + 287 \times k^4 + 681 \times k^3 + 1172 \times k^2 + 1552 \times k + 576}{(7 \times k - 4) \times (7 \times k + 3) \times (k + 2)^3 \times (k + 3)^3 \times (k + 4)^3} = \frac{533 - 54 \times \pi^2}{54}$$

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