In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W26

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+4) \times {p_{k+1}}^{1+p_{k+2}} - {p_k}^{1+p_{k+1}}}{{p_k}^{1+p_{k+1}} \times {p_{k+1}}^{1+p_{k+2}} \times (k+4)!} = \frac{1}{1536}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times (p_{k+1} - 3) \times {p_{k+2}}^2 - k \times (p_{k+2} - 3) \times {p_{k+1}}^2}{k \times (k+1) \times (k+2) \times {p_{k+1}}^2 \times {p_{k+2}}^2} = 0$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} \times k + p_{k+1} - p_k) \times (5^{p_k} - 1) \times 5^{p_{k+1}} - p_k \times (5^{p_{k+1}} - 5^{p_k})}{p_k \times p_{k+1} \times 5^{p_k + p_{k+1}} \times (k+1)!} = \frac{12}{25}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(2 \times k + 1)^2 \times ({p_k}^2 + 1) \times {p_{k+1}}^2 - (2 \times k - 1)^2 \times {p_k}^2}{(4 \times k^2 - 1)^2 \times {p_k}^2 \times {p_{k+1}}^2} = \frac{\pi^2 + 2}{8}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[7 \times (p_k{}^2 + 1) \times p_{k+1}{}^2 - 2 \times p_k{}^2] \times 2^{k-1}}{p_k{}^2 \times p_{k+1}{}^2 \times 7^k} = 1\frac{13}{20}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1}{}^2 - p_k{}^2) \times (p_k{}^2 + 1) \times p_{k+1}{}^2 \times p_{k+2}{}^2 - (p_{k+2}{}^2 - p_{k+1}{}^2) \times p_k{}^4}{p_k{}^4 \times p_{k+1}{}^4 \times p_{k+2}{}^2} = \frac{41}{144}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arctg\left[\frac{2 \times \left(p_{k+1}{}^2 - p_k{}^2\right)}{p_k{}^2 \times p_{k+1}{}^2 - 2 \times \left(p_{k+1}{}^2 + p_k{}^2 - 4\right)}\right] = \frac{\pi}{4}$$

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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