In memory of Justynka, my wife

FORMULAS

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

FORMULA No.
W18

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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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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \left\{ 1 - \frac{84 \times [(k+4) \times p_k - p_{k+1}]}{5 \times (k+4)! + 84 \times (k+4) \times p_k} \right\} = \frac{5}{12}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left[(k+4) \times {p_{k+3}}^3 - 5 \times {p_{k+2}}^3\right] \times 5^{k+2}}{{p_{k+2}}^3 \times {p_{k+3}}^3 \times (k+4)!} = \frac{1}{24}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times \left(k^2 + 5 \times k + 5\right) \times {p_{k+1}}^3 \times {p_{k+2}}^3 + (k+2)^2 \times \left[(k+1)^2 \times {p_{k+2}}^3 - k^2 \times {p_{k+1}}^3\right]}{k^2 \times (k+1)^2 \times (k+2)^2 \times {p_{k+1}}^3 \times {p_{k+2}}^3} = \frac{144 \times \pi^2 - 1265}{108}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 \times (2 \times k^2 + 4 \times k + 1) \times {p_{k+1}}^3 - (k+1)^2 \times (2 \times k^2 - 1) \times {p_k}^3}{(2 \times k^2 - 1) \times (2 \times k^2 + 4 \times k + 1) \times {p_k}^3 \times {p_{k+1}}^3} = \frac{1}{8}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times \left[{p_{k+4}}^5 \times {p_{k+5}}^5 + 5 \times \left(5 \times {p_{k+5}}^5 - 2 \times {p_{k+4}}^5\right) \times {p_{k+6}}^5\right]}{{p_{k+4}}^5 \times {p_{k+5}}^5 \times {p_{k+6}}^5 \times 5^{k+1}} = \frac{1}{11^5}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{28 \times [(k+4) \times {p_{k+1}}^2 - {p_k}^2] - (k+4)! \times ({p_{k+1}}^2 - {p_k}^2)}{{p_k}^2 \times {p_{k+1}}^2 \times (k+4)!} = \frac{1}{24}$$

p_k *(k-th prime number)*

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$$\sum_{k=1}^{k=\infty} \frac{k \times [2 \times (k+1)! - k - 2]}{(k+1)!^2} = 1 \qquad k \in N$$

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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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