In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W20

www.and-just-math.com

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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D201

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{{p_{k+1}}^4 \times {p_{k+2}}^4 + k \times (k+2) \times {p_{k+2}}^4 - (k+1)^2 \times {p_{k+1}}^4 - k}{(k+1) \times (k+2) \times {p_{k+1}}^4 \times {p_{k+2}}^4} = \frac{41}{81}$$

p_k *(k-th prime number)*

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D202

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{p_{k+4} \times (k+2)^{1+p_{k+2}} - p_{k+3} \times (k+1)^{p_{k+1}}}{p_{k+3} \times p_{k+4} \times (k+1)^{p_{k+1}} \times (k+2)^{p_{k+2}} \times (k+2)!} = \frac{1}{112}$$

p_k *(k-th prime number)*

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D203

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+7) \times \left[(k+1) \times \left(k \times {p_{k+5}}^2 - 2 \times {p_{k+4}}^2\right) \times {p_{k+6}}^2 + {p_{k+4}}^2 \times {p_{k+5}}^2\right]}{{p_{k+4}}^2 \times {p_{k+5}}^2 \times {p_{k+6}}^2 \times (k+1)!} = \frac{505}{20449}$$

p_k *(k-th prime number)*

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D204

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$$k \in N$$

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

p_k *(k-th prime number)*

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D205

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1)^2 \times \left(48 \times k^2 + 96 \times k + 41\right)}{(4 \times k - 3) \times (4 \times k + 1) \times (4 \times k + 3) \times (4 \times k + 5) \times (4 \times k + 7) \times (4 \times k + 11)} = \frac{1155 \times \pi + 5248}{443520}$$

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D206

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$$k \in N$$

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

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D207

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$$k \in N$$

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

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Thanks for:
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