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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FORMULA No.

D201

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 10) - p_k \times (p_{k+1} + 10) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 10) \times (p_{k+2} + 10) \times (p_{k+3} + 10)} = \frac{16}{195}$$

p_k (k-th prime number)

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FORMULA No.

D202

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+7} \times p_{k+2}! - p_{k+6} \times p_{k+1}!}{5^k \times (k+1)! \times p_{k+1}! \times p_{k+2}! \times p_{k+6} \times p_{k+7}} = \frac{1}{102}$$

p_k *(k-th prime number)*

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D203

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{11^{k-1} \times [(k+2) \times p_{k+2}! - 11 \times p_{k+1}!]}{(k+2)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{12}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D204

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1) \times p_{k+2} \times p_{k+6} - p_{k+1} \times p_{k+5}}{p_{k+1} \times p_{k+2} \times p_{k+5} \times p_{k+6} \times (k+1)! \times 3^k} = \frac{1}{39}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D205

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times (k+1) \times (k+3) \times p_{k+2} \times p_{k+8} - (k+2) \times p_{k+1} \times p_{k+7}}{p_{k+1} \times p_{k+2} \times p_{k+7} \times p_{k+8} \times (k+3)! \times 3^k} = \frac{1}{171}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D206

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+2} - p_{k+1}) \times [p_{k+1} \times p_{k+2} + 6 \times (p_{k+1} + p_{k+2}) \times ln2] - p_{k+1} \times p_{k+2} \times \left(p_{k+2} \times 2^{\frac{6}{p_{k+1}}} - p_{k+1} \times 2^{\frac{6}{p_{k+2}}} \right)}{{p_{k+1}}^2 \times {p_{k+2}}^2} = \frac{2 \times ln2 - 3}{3}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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D207

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+3) \times ({p_{k+2}}^2 \times p_{k+3} - {p_{k+1}}^3) + {p_{k+2}}^2 \times p_{k+3}}{(k+3) \times (k+4) \times {p_{k+1}}^3 \times {p_{k+2}}^3 \times p_{k+3}} = \frac{1}{540}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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