In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W03

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.

D031

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k{}^2 + p_{k+2}{}^2) \times p_{k+1}{}^2 - 2 \times p_k{}^2 \times p_{k+2}{}^2}{p_k{}^2 \times p_{k+1}{}^2 \times p_{k+2}{}^2} = \frac{5}{36}$$

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FORMULA No.

D032

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[(k+3) \times {p_{k+3}}^3 - 3 \times {p_{k+2}}^3] \times 3^{k-1}}{{p_{k+2}}^3 \times {p_{k+3}}^3 \times (k+3)!} = \frac{1}{750}$$

p_k *(k-th prime number)*

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FORMULA No.

D033

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[p_{k+1} \times p_{k+3} \times p_{k+5} \times (k+2) - 2 \times p_k \times p_{k+2} \times p_{k+4}] \times 2^{k-1}}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times p_{k+5} \times (k+2)!} = \frac{1}{220}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D034

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times ({p_k}^2 + 1) \times {p_{k+1}}^2 - {p_k}^2}{{p_k}^2 \times {p_{k+1}}^2 \times 7^k} = 1\frac{5}{12}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D035

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{\left[\left(5 \times k^2 + 11 \times k + 6\right) \times k! + 6 \times k^3 + 12 \times k^2 + 3 \times k - 3\right] \times k! \times 2^k}{(2 \times k + 3)!} = \pi - 2$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D036

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+1) \times p_{k+2} \times p_{k+4} - p_{k+1} \times p_{k+3}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times p_{k+4} \times (k+1)! \times 5^k} = \frac{1}{21}$$

p_k *(k-th prime number)*

NEW MATHEMATICAL FORMULA DAILY

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Euclid

FORMULA No.

D037

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$$k \in N$$

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

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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