In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W13

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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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FORMULA No.

D131

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [209 \times p_k \times p_{k+1} - 18 \times (p_k + p_{k+1})]}{{p_k}^2 \times {p_{k+1}}^2} = 100$$

p_k *(k-th prime number)*

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$$k \in N$$

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

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_{k+1} - p_k) \times [2 \times p_k \times p_{k+1} + 2 \times ({p_k}^2 + {p_{k+1}}^2) + 5 \times (p_k + p_{k+1}) + 3]}{p_k \times (p_k + 1) \times (2 \times p_k + 3) \times p_{k+1} \times (p_{k+1} + 1) \times (2 \times p_{k+1} + 3)} = \frac{1}{42}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k-6) \times p_{k+1} + (k+9) \times p_k + 28}{(k+1) \times (k+2) \times (p_k + 4) \times (p_{k+1} + 4)} = \frac{11}{12}$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(7 \times p_k + 4) \times p_{k+1} \times k + 14 \times p_k \times p_{k+1} + 8 \times p_{k+1} - 4 \times p_k}{p_k \times p_{k+1} \times (k+2)!} = 7 \times e - 13$$

p_k *(k-th prime number)*

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(3 \times p_k + 2) \times (p_{k+2} - p_{k+1}) \times p_{k+3} - 2 \times (p_{k+3} - p_{k+2}) \times p_k}{p_k \times p_{k+1} \times p_{k+2} \times p_{k+3}} = 1\frac{2}{15}$$

p_k (k-th prime number)

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times p_k \times p_{k+1} - (k-5) \times p_{k+1} + (k+8) \times p_k + 21}{(k+1) \times (k+2) \times (2 \times p_k + 7) \times (2 \times p_{k+1} + 7)} = \frac{5}{22}$$

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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