In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W19

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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.

D191

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$$\sum_{k=1}^{k=\infty} \frac{1}{64 \times k^2 + 112 \times k + 33} = \frac{1}{88} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{-4 \times k^2 + 6 \times k - 1}{(2 \times k - 3)^2 \times (2 \times k - 1)^2} = \frac{1}{4}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(3 \times k + 2) \times (3 \times k + 5) \times (5 \times k - 2) \times (5 \times k + 3)} = 0$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{13 \times k! \times (k^2 + k + 1) + 4 \times 3^k}{(13 \times k \times k! + 2 \times 3^k) \times [13 \times (k+1) \times (k+1)! + 2 \times 3^{k+1}]} = \frac{1}{19}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{81 \times k^2 - 99 \times k + 10} = \overset{k \in N}{-\frac{1}{9}}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{11^{k-1} \times [(11 \times k + 13)^{k+1} + 121 \times (11 \times k - 9)^{k-1} - 22 \times (11 \times k + 2)^{k}]}{[(11 \times k + 13)^{k+1} - 11 \times (11 \times k + 2)^{k}] \times [(11 \times k + 2)^{k} - 11 \times (11 \times k - 9)^{k-1}]} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{28 \times k^2 - 26 \times k - 1}{(26 \times k - 25) \times (26 \times k + 1) \times (4 \times k^2 - 1)} = \frac{1}{52}$$

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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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