FORMULAS

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

'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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+1}{(3 \times k^2 + 3 \times k + 1) \times (3 \times k^2 + 9 \times k + 7)} = \frac{1}{42}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{49 \times k^2 - 63 \times k + 8} = -\frac{1}{7} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 - k - 1}{(2 \times k + 9) \times (2 \times k + 11) \times (11 \times k - 9) \times (11 \times k + 2)} = 0$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{256 \times k^2 + 96 \times k - 55} = \frac{1}{176} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D175

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5^{k-1} \times \left[(5 \times k + 7)^{k+1} + 25 \times (5 \times k - 3)^{k-1} - 10 \times (5 \times k + 2)^k\right]}{\left[(5 \times k + 7)^{k+1} - 5 \times (5 \times k + 2)^k\right] \times \left[(5 \times k + 2)^k - 5 \times (5 \times k - 3)^{k-1}\right]} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{40 \times k^2 - 38 \times k - 1}{(5 \times k - 4) \times (5 \times k + 1) \times (35 \times k - 34) \times (35 \times k + 1)} = \frac{1}{175}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k! \times (k^2 + k + 1) + 16 \times 5^k}{(3 \times k \times k! + 4 \times 5^k) \times [3 \times (k+1) \times (k+1)! + 4 \times 5^{k+1}]} = \frac{1}{23}$$

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