FORMULAS

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

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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.

D291

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arctg\left(\frac{(\sqrt{2}-1) \times (2 \times k - 1)}{2 \times [(2-\sqrt{2}) \times k^4 - 2 \times (2-\sqrt{2}) \times k^3 + (3-\sqrt{2}) \times k^2 - k + 1]}\right) = \frac{\pi}{8}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D292

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 7 \times k + 11}{(k+5)!} = \frac{1}{30} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{(2 \times k - 3) \times 7^{k-1}}{2^{k-1} \times (k+2)!} = 1 \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{[2 \times (k+1)^2 \times (9 \times k! - 5) - k] \times k!}{(2 \times k! - 1) \times [2 \times (k+1)! - 1] \times [2 \times (k+2)! - 1]} = 1\frac{1}{4}$$

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FORMULA No.

D295

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times (k+2)^5 - (k+1)^4}{(k+2)! \times [(k+1) \times (k+2)]^4 \times 5^k} = \frac{1}{32}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 2 \times k - 4) \times 5^{k-1}}{(k+1)!^2} = 1 \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{36 \times k^2 + 108 \times k + 71}{(6 \times k + 7) \times (6 \times k + 13) \times (k+1)! \times 6^k} = \frac{1}{13}$$

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week and every day
to our website
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