*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

# W39

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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D391

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 4 \times \left(\sqrt{6} - \sqrt{2}\right) \times k - 2 - \sqrt{3}} \qquad k \in N$$

$$= \frac{8 - 5 \times \sqrt{2} - 4 \times \sqrt{3} + 3 \times \sqrt{6}}{8}$$

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$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{\sqrt{3}}{2\times k\times(2\times k+1)}\right)=\frac{\pi}{6} \qquad k\in N$$

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$$k \in N$$

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

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

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$$\sum_{k=1}^{k=\infty} \frac{k}{64 \times k^4 - 48 \times k^2 + 1} = \frac{1}{16} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{\pi}{3 \times k \times (k+1)}\right)}{sin\left(\frac{(3 \times k+1) \times \pi}{6 \times (k+1)}\right) \times sin\left(\frac{(3 \times k-2) \times \pi}{6 \times k}\right)} = \sqrt{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{21 \times k^2 - 19 \times k - 1}{(7 \times k - 6) \times (7 \times k + 1) \times (14 \times k - 13) \times (14 \times k + 1)} = \frac{1}{98}$$

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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