# 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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{4 \times k^2 + 8 \times k + 5} - (k+1) \times \sqrt{4 \times k^2 + 1} + 1}{k \times (k+1)} = 3 - \sqrt{5}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(5 \times k^2 - 10 \times k + 6) \times (5 \times k^2 + 1)} = \frac{1}{5}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{3^{k-1} \times \pi}{5^k}\right) \times sin\left(\frac{3^{k-1} \times \pi}{4 \times 5^k}\right) = \frac{2-\sqrt{2}}{4}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{-(\sqrt{2}+1)\times 2^{k-1}}{(2^{k-1}-1)\times(2^{k}-1)\times\left(3+2\times\sqrt{2}\right)+2^{2\times k-1}}\right)=\frac{5\times\pi}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 24 \times k + 73}{(k+5) \times (k+6) \times (k+7) \times (k+8)} = \frac{13}{48}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{25 \times \pi}{3 \times 2^{2 \times k+4}}\right) \times sin\left(\frac{-5 \times \pi}{2^{2 \times k+4}}\right) =$$

$$= \frac{\left(\sqrt{2} + 2 \times \sqrt{3} + \sqrt{6} + 4\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}} - 8}{16}$$

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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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