



FORMULAS

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

FORMULA No.

W45

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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D451

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$k \in \mathbb{N}$

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

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$$\prod_{k=1}^{k=\infty} \cos \frac{5 \times \pi}{3 \times 2^{k+3}} \quad k \in \mathbb{N}$$
$$= \frac{3 \times (3 \times \sqrt{2} + \sqrt{6} + 2) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{5 \times \pi}$$

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(16 \times k^2 - 32 \times k + 25) \times (16 \times k^2 + 9)} = \frac{1}{144} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 40 \times k + 201}{(k + 9) \times (k + 10) \times (k + 11) \times (k + 12)} = \frac{7}{40} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{(3 + \sqrt{5}) \times k^2 - (\sqrt{5} - 1) \times (k + 1)} = \frac{1}{2} \quad k \in \mathbb{N}$$

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$$\sum_{k=1}^{k=\infty} \frac{k + 1}{16 \times k^4 + 64 \times k^3 + 120 \times k^2 + 112 \times k + 65} = \frac{1}{104} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \sin\left(\frac{5 \times \pi}{2^{2 \times k+4}}\right) \times \cos\left(\frac{25 \times \pi}{3 \times 2^{2 \times k+4}}\right) \quad k \in \mathbb{N}$$
$$= \frac{(3 \times \sqrt{2} + \sqrt{6} + 2) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{16}$$

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We invite you every
week and every day
to our website
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Thanks for:
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