FORMULAS

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

FORMULA No.
W03

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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

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FORMULA No.

D031

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \frac{cos\left(\frac{5 \times \pi}{3 \times 2^{k+2}}\right)}{cos^2\left(\frac{5 \times \pi}{3 \times 2^{k+3}}\right)} = \frac{\pi \times 5 \times \left(2 + \sqrt{6} - \sqrt{2} - \sqrt{3}\right)}{24}$$

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D032

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{(7 + 3 \times \sqrt{5}) \times k^4 + 2 \times (7 + 3 \times \sqrt{5}) \times k^3 - 3 \times (1 + \sqrt{5}) \times k^2 - 2 \times (5 + 3 \times \sqrt{5}) \times k + 5 - 3 \times \sqrt{5}} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{3^k \times \pi}{7^k}\right) \times sin\left(\frac{2 \times 3^k \times \pi}{5 \times 7^k}\right) = \frac{3+\sqrt{5}}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^k \times (2 \times \pi)^{2 \times k-1} \times \frac{(2 \times k+1) \times 2^{2 \times k-2} - \pi}{(2 \times k+1)!} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 4 \times k^3 + 6 \times k^2 + 4 \times k + 1}{(k+1)^4 \times (2 \times k + 1) \times (2 \times k + 3)} = \frac{1}{6}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} \times \left[(3 \times k + 5)^{k+1} + 9 \times (3 \times k - 1)^{k-1} - 6 \times (3 \times k + 2)^{k}\right]}{\left[(3 \times k + 5)^{k+1} - 3 \times (3 \times k + 2)^{k}\right] \times \left[(3 \times k + 2)^{k} - 3 \times (3 \times k - 1)^{k-1}\right]} = \frac{1}{2}$$

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D037

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$$\sum_{k=1}^{k=\infty} \frac{1}{81 \times k^2 + 225 \times k + 136} = \frac{1}{153} \qquad k \in N$$

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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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