FORMULAS

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

FORMULA No.

W49

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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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$$\sum_{k=1}^{k=\infty} sin\left(\frac{\pi}{11^k}\right) \times sin\left(\frac{5 \times \pi}{6 \times 11^k}\right) = \frac{2-\sqrt{3}}{4} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1}{\left(9+\sqrt{77}\right) \times k^2 - \left(5+\sqrt{77}\right) \times k + 7 - \sqrt{77}} = \frac{1}{2}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^k}{\left(7+\sqrt{13}\right) \times 3^{2 \times k-1} - 4 \times \left(1+\sqrt{13}\right) \times 3^{k-1} + 2} = \frac{1}{4}$$

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$$k \in N$$

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

$$= \frac{5 \times \pi - 3 \times \left(2 + \sqrt{6} + 3 \times \sqrt{2}\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{96}$$

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

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$$\sum_{k=1}^{k=\infty} \frac{k+2}{k \times (k^3 + 8 \times k^2 + 19 \times k + 12)} = \frac{1}{8} \qquad k \in N$$

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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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