FORMULAS

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

FORMULA No.
W04

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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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D041

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

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin\left(\frac{\pi}{24\times 5^{k}}\right)\times sin\left(\frac{\pi}{8\times 5^{k}}\right)\right)$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{\left(9 - \sqrt{77}\right) \times k^4 + 2 \times \left(9 - \sqrt{77}\right) \times k^3 + \left(\sqrt{77} - 5\right) \times k^2 + 2 \times \left(\sqrt{77} - 7\right) \times k + 7 + \sqrt{77}} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{k^4 + 2 \times k^3 + 19 \times k^2 + 18 \times k + 90} = \frac{1}{10}$$

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$$\sum_{k=1}^{k=\infty} (-1)^k \times \left(\frac{5 \times \pi}{2}\right)^{2 \times k} \times \frac{(2 \times k + 1) \times 2^{2 \times k} - 5 \times \pi}{(2 \times k + 1)!} \qquad k \in N$$

$$= 5 \times \pi - 4$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5^{k-1} \times \left[(5 \times k + 8)^{k+1} + 25 \times (5 \times k - 2)^{k-1} - 10 \times (5 \times k + 3)^{k}\right]}{\left[(5 \times k + 8)^{k+1} - 5 \times (5 \times k + 3)^{k}\right] \times \left[(5 \times k + 3)^{k} - 5 \times (5 \times k - 2)^{k-1}\right]} = \frac{1}{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^2 + 15 \times k + 57}{(k+7) \times (k+8) \times (k+8)!} = \frac{1}{322560}$$

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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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