FORMULAS

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

FORMULA No.

W43

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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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D431

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

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$$\sum_{k=1}^{k=\infty} \frac{k^2 + 3 \times k - 2}{(17 \times k^2 + 94 \times k + 145) \times (17 \times k^2 + 128 \times k + 256)} \qquad k \in N$$

$$= \frac{1}{2176}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 - 1}{4 \times k^4 + 1} = \frac{1}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 28 \times k + 99}{(k+6) \times (k+7) \times (k+8) \times (k+9)} = \frac{15}{63}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+1}{4 \times k^4 + 16 \times k^3 + 24 \times k^2 + 16 \times k + 5} = \frac{1}{20}$$

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$$k \in N$$

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

$$= \sqrt{6} + \sqrt{3} - \sqrt{2} - 2$$

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

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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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