FORMULAS

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

FORMULA No.

W46

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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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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 8 \times k + 9}{(k+1) \times (k+2) \times (k+3) \times (k+4)} = \frac{5}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 12 \times k - 7}{(50 \times k^2 + 586 \times k + 1765) \times (50 \times k^2 + 686 \times k + 2401)} = \frac{1}{17150}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+1}{4 \times k^4 + 16 \times k^3 + 32 \times k^2 + 32 \times k + 21} = \frac{1}{28}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times cos\left(\frac{\pi}{4 \times 3^{k+1}}\right) \times cos\left(\frac{\pi}{8 \times 3^{k+1}}\right)$$

$$= \frac{\left(3 \times \sqrt{2} + 2 \times \sqrt{3} + \sqrt{6} + 4\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{16} \pm \frac{1}{2}$$

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(9 \times k^2 - 18 \times k + 13) \times (9 \times k^2 + 4)} = \frac{1}{36}$$

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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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