

FORMULAS

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

FORMULA No.

W18

www.and-just-math.com

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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Euclid

FORMULA No.

D181

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^2 + 63 \times k + 107}{(3 \times k + 10) \times (3 \times k + 13) \times (k+3)! \times 3^k} = \frac{1}{78}$$



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D182

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$$\sum_{k=1}^{k=\infty} \frac{(5 \times k + 8) \times 7^{k-1}}{5^k \times (k+3)!} = \frac{1}{6}$$



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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+2)^3 - (k+1)^2}{(k+2)! \times [(k+1) \times (k+2)]^2 \times 2^{k-3}} = 1$$



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$$\sum_{k=1}^{k=\infty} \frac{(k^2 + 7 \times k + 4) \times 2^{k+3}}{(k+1)! \times (k+6)!} = \frac{1}{45}$$



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D185

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$$\sum_{k=1}^{k=\infty} \frac{5 \times k^2 + 14 \times k + 9}{(k+1) \times (k+2)! \times 5^k} = \frac{1}{2}$$



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



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$$k \in N$$

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

