



FORMULAS

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

FORMULA No.

W16

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

NEW MATHEMATICAL FORMULA DAILY



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FORMULA No.

D161

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$$\sum_{k=1}^{k=n} \frac{k+1}{(k+2)!} = \frac{1}{2} - \frac{1}{(n+2)!} \quad k, n \in \mathbb{N}$$

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D162

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$$\sum_{k=1}^{k=n} \frac{2 \times k^2 + 3 \times k - 1}{2^k \times (k + 2)!} = \frac{1}{2} - \frac{n + 1}{2^n \times (n + 2)!} \quad k, n \in N$$

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$$\sum_{k=1}^{k=n} \frac{2^{k-1} \times (k-1)}{(k+1)!} = 1 - \frac{2^n}{(n+1)!} \quad k, n \in \mathbb{N}$$

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$k, n \in \mathbb{N}$

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

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$$\sum_{k=1}^{k=n} \frac{3^{k-1} \times (k-2)}{(k+1)!} = 1 - \frac{3^n}{(n+1)!} \quad k, n \in \mathbb{N}$$

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$$\sum_{k=1}^{k=n} \frac{k^2 + k - 1}{(k + 2)!} = \frac{1}{2} - \frac{n + 1}{(n + 2)!} \quad k, n \in \mathbb{N}$$

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$$\sum_{k=1}^{k=n} \frac{2^{2 \times k - 1} \times (k - 2)}{(k + 2)!} = 1 - \frac{2^{2 \times n + 1}}{(n + 2)!} \quad k, n \in \mathbb{N}$$

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We invite you every
week and every day
to our website
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Thanks for:
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