



FORMULAS

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

FORMULA No.

W14

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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D141

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

$$\sum_{k=1}^{k=n} \frac{k-1}{k!} = 1 - \frac{1}{n!}$$

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

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

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

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

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

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$$\sum_{k=1}^{k=n} 2^{k-2} \times (2 \times k + 5) \times (k + 2)! = 2^{n-1} \times (n + 3)! - 3 \quad k, n \in \mathbb{N}$$

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

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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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