



# FORMULAS

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

FORMULA No.

**W17**

[www.and-just-math.com](http://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.

**D171**

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

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$$\sum_{k=1}^{k=n} \frac{5^{k-1} \times (k-4)}{(k+1)!} = 1 - \frac{5^n}{(n+1)!} \quad k, n \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=n} \frac{7^{k-1} \times (k-5)}{(k+2)!} = \frac{1}{2} - \frac{7^n}{(n+2)!} \quad k, n \in \mathbb{N}$$

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

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$$\sum_{k=1}^{k=n} \frac{k+2}{(k+3)!} = \frac{1}{6} - \frac{1}{(n+3)!} \quad k, n \in \mathbb{N}$$

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

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We invite you every  
week and every day  
to our website  
[www.and-just-math.com](http://www.and-just-math.com)

Thanks for:  
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