FORMULAS

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

FORMULA No.
W05

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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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D051

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$$k, n \in N$$

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

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{2}{2 \times k^2 + 2 \times \left(\left(\sqrt{5} - 1 \right) \times n - 1 \right) \times k + \left(3 - \sqrt{5} \right) \times n^2 - \left(\sqrt{5} - 1 \right) \times n} = \frac{1}{n}$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{n^2 + 1}{k^2 + (2 \times n^3 - 1) \times k + n^3 \times (n^3 - 1)} = \frac{1}{n^3}$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{1}{4 \times k^2 + 4 \times n \times k + n^2 - 1} = \frac{n}{(n+1) \times (3 \times n + 1)}$$

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$$k, n \in N$$

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

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$$k, n \in N, n > 1$$

$$\sum_{k=1}^{k=n} \frac{1}{4 \times k^2 + 4 \times (n^2 - n - 1) \times k + (n-1) \times n \times (n^2 - n - 2)} = \frac{1}{(n-1) \times n \times (n+1)}$$

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$$k, n \in N$$

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

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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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