FORMULAS

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

FORMULA No.

W11

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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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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{3 \times k^2 + 5 \times k + 3}{k^6 + 5 \times k^5 + 11 \times k^4 + 13 \times k^3 + 9 \times k^2 + 3 \times k} = \frac{n^3 + 4 \times n^2 + 6 \times n}{3 \times n^3 + 12 \times n^2 + 18 \times n + 9}$$

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$$\sum_{k=1}^{k=n} \frac{k \times ln\frac{k+2}{k+1} + ln\frac{k+2}{k+1} + ln\frac{1}{k+1}}{ln(k+1) \times ln(k+2)} \qquad k, n \in N$$

$$= \frac{2 \times ln(n+2) - n \times ln2 - 2 \times ln2}{ln2 \times ln(n+2)}$$

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$$k, n \in N$$

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

$$= \frac{1}{2} \times ln2 - \frac{ln(n+2)}{(n+2)}$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{k \times ln\frac{k+1}{k+2} + ln(k+1)}{k \times (k+1)} = ln2 - \frac{ln(n+2)}{n+1}$$

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$$\sum_{k=1}^{k=n} \frac{2 \times k \times ln\frac{k+2}{k+1} - ln\frac{k+2}{k+1} + 2 \times ln\frac{1}{k+1}}{ln(k+1) \times ln(k+2)} = \frac{ln(n+2) - 2 \times n \times ln2 - ln2}{ln2 \times ln(n+2)} \qquad k, n \in N$$

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

$$= \frac{5 \times ln(n+2) - 3 \times n \times ln2 - 5 \times ln2}{ln2 \times ln(n+2)}$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{3 \times k \times ln\frac{k+1}{k+2} + 2 \times ln\frac{k+1}{k+2} + 3 \times ln(k+1)}{(3 \times k + 2) \times (3 \times k + 5)} = \frac{-5 \times ln(n+2) + 3 \times n \times ln2 + 5 \times ln2}{5 \times (3 \times n + 5)}$$

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We invite you every week and every day to our website www.and-just-math.com

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