FORMULAS

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

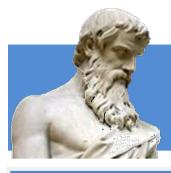'No other science boosts the faith in the strength of the human spirit like mathematics.'
Hugo Steinhaus

1 WEEK = 7 DAYS = 7 FORMULAS

NEW MATHEMATICAL FORMULA DAILY

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$$k, n \in N$$

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

$$= ln2 - \frac{ln(n+2)}{4 \times n + 1}$$

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

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

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$$\sum_{k=1}^{k=n} \frac{11 \times k \times ln\frac{k+1}{k+2} - 5 \times ln\frac{k+1}{k+2} + 11 \times ln(k+1)}{(11 \times k - 5) \times (11 \times k + 6)}$$

$$= \frac{1}{6} \times ln2 - \frac{ln(n+2)}{11 \times n + 6}$$

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

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

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

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

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$$k, n \in N$$

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

$$= \frac{1}{3} \times \ln 2 - \frac{\ln(n+2)}{(n+3)}$$

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