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

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

$$k, n \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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

$$k, n \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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

$$k, n \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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

$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{2 \times \ln(k+1) - 2 \times \ln k + 3}{9 \times k^2 + 6 \times k \times \ln(k+1) + 6 \times k \times \ln k + 15 \times k + 4 \times \ln k \times \ln(k+1) + 2 \times \ln(k+1) + 8 \times \ln k + 4}$$
$$= \frac{2 \times \ln(n+1) + 3 \times n}{4 \times (2 \times \ln(n+1) + 3 \times n + 4)}$$

NEW MATHEMATICAL FORMULA DAILY

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

$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{ln(k+1) - lnk + 3}{9 \times k^2 + 3 \times k \times ln(k+1) + 3 \times k \times lnk + 9 \times k + lnk \times ln(k+1) + 3 \times lnk}$$
$$= \frac{ln(n+1) + 3 \times n}{3 \times ln(n+1) + 9 \times n + 9}$$

NEW MATHEMATICAL FORMULA DAILY

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

$$k, n \in N$$

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

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

NEW MATHEMATICAL FORMULA DAILY

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

$$k, n \in N$$

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

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

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