FORMULAS

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

FORMULA No.
W01

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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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D011

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{1}{16 \times k^2 + 40 \times k + 21} = \frac{n}{28 \times n + 49}$$

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$$\frac{4}{k^2+6\times k+5} \qquad k \in N$$

$$= \frac{1}{k^2+3\times k+2} + \frac{1}{k^2+5\times k+6}$$

$$+ \frac{1}{k^2+7\times k+12} + \frac{1}{k^2+9\times k+20}$$

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{1}{\sqrt{k+1}+\sqrt{k}} = \sqrt{n+1} - 1$$

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$$k, V \in N$$

$$\sum_{7}^{7\times 2^{V}-1} \frac{2 \times k + 1}{k^2 \times (k+1)^2} = \frac{2^{2\times V} - 1}{49 \times 2^{2\times V}}$$

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$$\sum_{1}^{n} \frac{2 \times k + 10}{16 \times k^4 + 320 \times k^3 + 2392 \times k^2 + 7920 \times k + 9801} = \frac{n^2 + 11 \times n}{484 \times n^2 + 5324 \times n + 14641} \qquad k, n \in N$$

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$$\sum_{1}^{n} \frac{tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)-tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)}{4\times tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)\times tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)+2\times tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)+2\times tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)+1} \qquad k,n\in N$$

$$= \frac{tg\left(\frac{n+1}{n+2}\times\frac{\pi}{2}\right)-1}{6\times tg\left(\frac{n+1}{n+2}\times\frac{\pi}{2}\right)+3}$$

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$$k, n \in N$$

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

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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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