FORMULAS

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

FORMULA No.

W02

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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

NEW MATHEMATICAL FORMULA DAILY

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D021

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{3 \times k^2 + 5 \times k + 2}{k^6 + 5 \times k^5 + 9 \times k^4 + 7 \times k^3 + 2 \times k^2} = \frac{n^3 + 4 \times n^2 + 5 \times n}{2 \times n^3 + 8 \times n^2 + 10 \times n + 4}$$

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$$\frac{1}{k^2 + 17 \times k + 16} \qquad k \in N$$

$$= \frac{1}{5 \times k^2 + 25 \times k + 20} + \frac{1}{3 \times k^2 + 39 \times k + 108}$$

$$+ \frac{7}{15 \times k^2 + 375 \times k + 2160}$$

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$$k, n \in N$$

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

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D024

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$$k, n \in N$$

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

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$$\sum_{1}^{n} \frac{k+4}{16 \times k^4 + 256 \times k^3 + 1528 \times k^2 + 4032 \times k + 3969} \qquad k, n \in N$$

$$= \frac{n^2 + 9 \times n}{648 \times n^2 + 5832 \times n + 13122}$$

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$$k,n \in N$$

$$\sum_{1}^{n} \frac{tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)-tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)}{81\times tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)\times tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)+36\times tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)+36\times tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)+16}$$

$$= \frac{tg\left(\frac{n+1}{n+2}\times\frac{\pi}{2}\right)-1}{117\times tg\left(\frac{n+1}{n+2}\times\frac{\pi}{2}\right)+52}$$

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$$k, n \in N$$

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

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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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