FORMULAS

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

FORMULA No.

W07

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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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D071

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$$k, n \in N$$

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

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$$\sum_{k=1}^{k=n} \frac{k^4 + 2 \times k^3 + k + 1}{k^6 + 3 \times k^5 + 5 \times k^4 + 3 \times k^3 + k^2 - 3 \times k - 1} \qquad k, n \in N$$

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

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$$\sum_{k=1}^{k=n} \frac{4 \times k^3 + 13 \times k^2 + 13 \times k + 3}{k^6 + 7 \times k^5 + 17 \times k^4 + 17 \times k^3 + 6 \times k^2} \qquad k, n \in N$$

$$= \frac{n \times (n^2 + 5 \times n + 5)}{n^3 + 5 \times n^2 + 7 \times n + 3}$$

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$$\sum_{k=1}^{k=n} \frac{k^4 + 4 \times k^3 + k^2 - 8 \times k - 7}{k^4 + 4 \times k^3 + 3 \times k^2 - 2 \times k - 1} \qquad k, n \in N$$

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

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{k^4 + 2 \times k^3 + 9 \times k^2 + 10 \times k + 7}{k^6 + 3 \times k^5 + 5 \times k^4 + 3 \times k^3 + k^2 - 3 \times k - 1} = \frac{n \times (4 \times n^2 + 11 \times n + 14)}{n^3 + 3 \times n^2 + 4 \times n + 1}$$

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$$\sum_{k=1}^{k=n} \frac{2 \times k^2 + 3 \times k + 1}{k^5 + 3 \times k^4 + 5 \times k^3 + 5 \times k^2 + 4 \times k + 2} = \frac{n \times (n^2 + 3 \times n + 2)}{2 \times n^3 + 6 \times n^2 + 8 \times n + 4} \qquad k, n \in N$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{-2 \times k^3 + 3 \times k^2 + 5 \times k + 2}{k^6 + 3 \times k^5 + k^4 + k^3 + 4 \times k^2 + 2 \times k + 4} = \frac{n \times (n^2 + 3 \times n + 4)}{2 \times n^3 + 6 \times n^2 + 4 \times n + 4}$$

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

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