FORMULAS

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

FORMULA No.

W06

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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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D061

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{4 \times k + 3}{4 \times k^4 + 12 \times k^3 + 11 \times k^2 + 3 \times k} = \frac{2 \times n^2 + 5 \times n}{6 \times n^2 + 15 \times n + 9}$$

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{15 \times k^2 + 3 \times k - 3}{25 \times k^6 + 15 \times k^5 - 59 \times k^4 - 39 \times k^3 + 16 \times k^2 + 6 \times k} = \frac{5 \times n^3 + 9 \times n^2 + n}{-15 \times n^3 - 27 \times n^2 - 3 \times n + 9}$$

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{10 \times k + 8}{25 \times k^4 + 80 \times k^3 + 89 \times k^2 + 40 \times k + 9} = \frac{5 \times n^2 + 13 \times n}{45 \times n^2 + 117 \times n + 81}$$

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{6 \times k^2 - 1}{4 \times k^6 - 9 \times k^4 - 2 \times k^3 + 3 \times k^2} = \frac{2 \times n^3 + 3 \times n^2}{-2 \times n^3 - 3 \times n^2 + 1}$$

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$$\sum_{1}^{n} \frac{3 \times k^2 + 3 \times k + 3}{k^6 + 3 \times k^5 + 7 \times k^4 + 11 \times k^3 + 13 \times k^2 + 13 \times k + 4} \qquad k, n \in N$$

$$= \frac{n^3 + 3 \times n^2 + 5 \times n}{4 \times n^3 + 12 \times n^2 + 20 \times n + 16}$$

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{18 \times k + 11}{81 \times k^4 + 198 \times k^3 + 139 \times k^2 + 22 \times k} = \frac{9 \times n^2 + 20 \times n}{99 \times n^2 + 220 \times n + 121}$$

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$$k, n \in N$$

$$\sum_{1}^{n} \frac{9 \times k^2 + 5 \times k + 1}{9 \times k^6 + 15 \times k^5 + k^4 - 7 \times k^3 - 2 \times k^2} = \frac{3 \times n^3 + 7 \times n^2 + 5 \times n}{3 \times n^3 + 7 \times n^2 + 5 \times n + 1}$$

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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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