FORMULAS

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

FORMULA No.

W10

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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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FORMULA No.

D101

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{8 \times 3^{2\times k+2} + 1}{3^{4\times k+6} + 10 \times k \times 3^{2\times k+2} + 3^{2\times k+2} + k^2 + k} = \frac{3^{2\times n+4} + n - 81}{82 \times (3^{2\times n+4} + n + 1)}$$

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D102

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$$k, n \in N$$

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

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D103

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$$\sum_{k=1}^{k=n} \frac{4 \times 5^k + 2}{5^{2\times k+1} + 12 \times k \times 5^k + 2 \times 5^k + 4 \times k^2 + 4 \times k} \qquad k, n \in N$$

$$= \frac{5^{n+1} + 2 \times n - 5}{7 \times (5^{n+1} + 2 \times n + 2)}$$

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D104

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{5 \times 6^k + 1}{6^{2\times k+1} + 7 \times k \times 6^k + 6^k + k^2 + k} = \frac{6^{n+1} + n - 6}{7 \times (6^{n+1} + n + 1)}$$

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D105

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{6 \times 7^{k-1} + 1}{7^{2\times k-1} + 8 \times k \times 7^{k-1} + 7^{k-1} + k^2 + k} = \frac{7^n + n - 1}{2 \times (7^n + n + 1)}$$

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$$\sum_{k=1}^{k=n} \frac{6 \times 7^k + 9}{7^{2\times k+1} + 72 \times k \times 7^k + 9 \times 7^k + 81 \times k^2 + 81 \times k} \qquad k, n \in N$$

$$= \frac{7^{n+1} + 9 \times n - 7}{16 \times (7^{n+1} + 9 \times n + 9)}$$

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FORMULA No.

D107

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{8 \times 3^{2\times k} + 1}{3^{4\times k+2} + 10 \times k \times 3^{2\times k} + 3^{2\times k} + k^2 + k} = \frac{3^{2\times n+2} + n - 9}{10 \times (3^{2\times n+2} + n + 1)}$$

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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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