FORMULAS

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

● ● ● ●

'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

In memory of Justynka, my wife

FORMULA No.

FORMULAS

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

D161

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 32 \times k^3 + 105 \times k^2 + 109 \times k + 25}{(k+4) \times (k+5) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(196 \times k^5 + 476 \times k^4 + 813 \times k^3 + 994 \times k^2 + 557 \times k + 96) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3) \times (7 \times k - 5) \times (7 \times k + 2) \times k!^2 \times 2^{4 \times k + 3}} = \frac{\pi - 3}{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^4 + 336 \times k^3 + 1059 \times k^2 + 2046 \times k + 1600}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (7 \times k + 3) \times (7 \times k + 10)} = \frac{61 - 6 \times \pi^2}{36}$$

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$$\sum_{k=1}^{k=\infty} \frac{k^4 + 13 \times k^3 + 75 \times k^2 + 211 \times k + 225}{(k+2)^2 \times (k+3)^2 \times (k+4) \times (k+5)} = \frac{2 \times \pi^2 - 15}{12}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

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D165

'No other science boosts the faith in the strength of the human spirit like mathematics.'
 Hugo Steinhaus

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{25 \times k^4 + 165 \times k^3 + 621 \times k^2 + 1448 \times k + 1296}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (5 \times k + 4) \times (5 \times k + 9)} = \frac{6 \times \pi^2 - 59}{18}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 729} = \frac{27 \times \pi + 4}{5832} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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FORMULA No.

D167

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 32 \times k^3 - 541 \times k^2 - 1799 \times k - 2484}{(k+1) \times (k+2) \times (16 \times k^2 - 729) \times (16 \times k^2 - 529)} = \frac{\pi}{200}$$

NEW MATHEMATICAL FORMULA DAILY

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