*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

# W06

www.and-just-math.com

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

*In memory of Justynka, my wife*

# FORMULAS

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Euclid

••••

FORMULA No.

D061

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 961} = -\frac{\pi}{248} \qquad k \in N$$

## NEW MATHEMATICAL FORMULA DAILY

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# FORMULAS

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FORMULA No.

D062

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 + 384 \times k^3 + 955 \times k^2 + 883 \times k + 147}{(3 \times k + 4) \times (3 \times k + 7) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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D063

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 84 \times k^3 + 385 \times k^2 + 986 \times k + 1024}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (3 \times k + 5) \times (3 \times k + 8)} = \frac{61 - 6 \times \pi^2}{36}$$

NEW MATHEMATICAL FORMULA DAILY

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D064

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 51 \times k^3 + 160 \times k^2 + 332 \times k + 256}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (3 \times k + 1) \times (3 \times k + 4)} = \frac{6 \times \pi^2 - 59}{18}$$

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FORMULA No.

D065

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$$\sum_{k=1}^{k=\infty} \frac{1}{(841 - 16 \times k^2)} = \frac{29 \times \pi - 4}{6728} \qquad k \in N$$

## NEW MATHEMATICAL FORMULA DAILY

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●●●●

FORMULA No.

D066

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{144 \times k^4 - 48 \times k^3 + 103 \times k^2 + 83 \times k + 15}{(3 \times k - 2) \times (3 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{4 - \pi}{8}$$

## NEW MATHEMATICAL FORMULA DAILY

*In memory of Justynka, my wife*

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FORMULA No.

D067

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 11 \times k^3 + 56 \times k^2 + 144 \times k + 144}{(k+2)^2 \times (k+3)^3 \times (k+4)} = \frac{2 \times \pi^2 - 15}{12}$$

## NEW MATHEMATICAL FORMULA DAILY

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

Thanks for:
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