

*In memory of Justynka, my wife*

# FORMULAS

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

FORMULA No.

**W15**

[www.and-just-math.com](http://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**

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# FORMULAS

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

FORMULA No.

**D151**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{1296 \times k^4 - 2304 \times k^3 + 1699 \times k^2 - 49 \times k + 15}{(4 \times k - 3) \times (9 \times k - 8) \times (9 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k + 1)^2 - 1]} = \frac{\pi - 2}{16}$$

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# FORMULAS

FORMULA No.

**D152**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k^6 + 10 \times k^5 + 37 \times k^4 + 96 \times k^3 + 198 \times k^2 + 216 \times k + 81}{k^2 \times (k + 1)^2 \times (k + 2)^2 \times (k + 3)^2} = \frac{\pi^2}{6}$$

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# FORMULAS

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FORMULA No.

**D153**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{784 \times k^4 - 336 \times k^3 + 463 \times k^2 + 373 \times k + 60}{(7 \times k - 5) \times (7 \times k + 2) \times (16 \times k^2 - 1) \times [16 \times (k + 1)^2 - 1]} = \frac{4 - \pi}{8}$$

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# FORMULAS

FORMULA No.

**D154**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{36 \times k^5 + 192 \times k^4 + 325 \times k^3 + 228 \times k^2 + 192 \times k + 64}{(k+2)^3 \times (k+3)^3 \times (k+4)^3 \times (6 \times k - 5) \times (6 \times k + 1)} = \frac{533 - 54 \times \pi^2}{54}$$

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# FORMULAS

FORMULA No.

**D155**

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{k^7 + 200 \times k^6 + 15098 \times k^5 + 527200 \times k^4 + 8002400 \times k^3 + 33500100 \times k^2 + 51000000 \times k + 25000000}{k \times (k+1)^3 \times (k+2)^2 \times (k+49)^2 \times (k+50)^2} = \frac{12 - \pi^2}{6}$$

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# FORMULAS

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FORMULA No.

**D156**

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 96 \times k^3 + 275 \times k^2 + 277 \times k + 48}{(k+3) \times (k+4) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 1369} = \frac{\pi}{296} \quad k \in \mathbb{N}$$

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week and every day  
to our website  
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Thanks for:  
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