FORMULAS

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

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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

In memory of Justynka, my wife

FORMULAS

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Euclid
●●●●

FORMULA No.

D071

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

$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 5041} = -\frac{\pi}{568} \qquad k \in N$$

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Euclid ●●●●

FORMULA No.

D072

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{49 \times k^5 + 273 \times k^4 + 550 \times k^3 + 692 \times k^2 + 808 \times k + 256}{(7 \times k - 5) \times (7 \times k + 2) \times (k + 2)^3 \times (k + 3)^3 \times (k + 4)^3} = \frac{533 - 54 \times \pi^2}{54}$$

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D073

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 64 \times k^3 - 100 \times k^2 - 472 \times k - 693}{(2 \times k + 1) \times (2 \times k + 3) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{16 \times k^2 - 961} = \frac{31 \times \pi + 4}{7688} \qquad k \in N$$

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FORMULA No.

D075

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(100 \times k^5 + 400 \times k^4 + 1029 \times k^3 + 1439 \times k^2 + 926 \times k + 216) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3) \times (5 \times k - 2) \times (5 \times k + 3) \times k!^2 \times 2^{4 \times k + 3}} = \frac{\pi - 3}{3}$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 4225} = \frac{\pi}{520} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{1024 \times k^4 - 1792 \times k^3 + 1360 \times k^2 - 16 \times k + 15}{(4 \times k - 3) \times (8 \times k - 7) \times (8 \times k + 1) \times (16 \times k^2 - 1) \times [16 \times (k+1)^2 - 1]} = \frac{\pi - 2}{16}$$

NEW MATHEMATICAL FORMULA DAILY

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