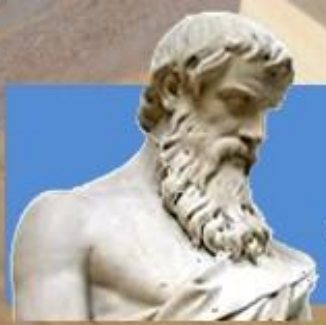

In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No.

W29

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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FORMULA No.

D291

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(72 \times k^5 + 132 \times k^4 + 146 \times k^3 + 163 \times k^2 + 89 \times k + 12) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3) \times (6 \times k - 5) \times (6 \times k + 1) \times k!^2 \times 2^{4 \times k + 2}} = \frac{\pi - 3}{3}$$

NEW MATHEMATICAL FORMULA DAILY

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D292

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^4 + 40 \times k^3 + 217 \times k^2 + 656 \times k + 784}{(k+2)^2 \times (k+3)^2 \times (k+4)^2 \times (2 \times k + 5) \times (2 \times k + 7)} = \frac{6 \times \pi^2 - 59}{18}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D293

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k^4 + 78 \times k^3 + 331 \times k^2 + 800 \times k + 784}{(k+2) \times (k+3)^2 \times (k+4)^2 \times (3 \times k + 4) \times (3 \times k + 7)} = \frac{61 - 6 \times \pi^2}{36}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D294

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{36 \times k^4 + 120 \times k^3 + 301 \times k^2 + 295 \times k + 64}{(3 \times k + 5) \times (3 \times k + 8) \times (4 \times k^2 - 1)^2} = \frac{\pi^2}{8}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D295

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{16 \times k^4 + 120 \times k^3 + 441 \times k^2 + 890 \times k + 729}{(4 \times k + 5) \times (4 \times k + 9) \times (k + 2)^2 \times (k + 3)^2} = \frac{2 \times \pi^2 - 15}{12}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D296

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 49} = -\frac{\pi}{56} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D297

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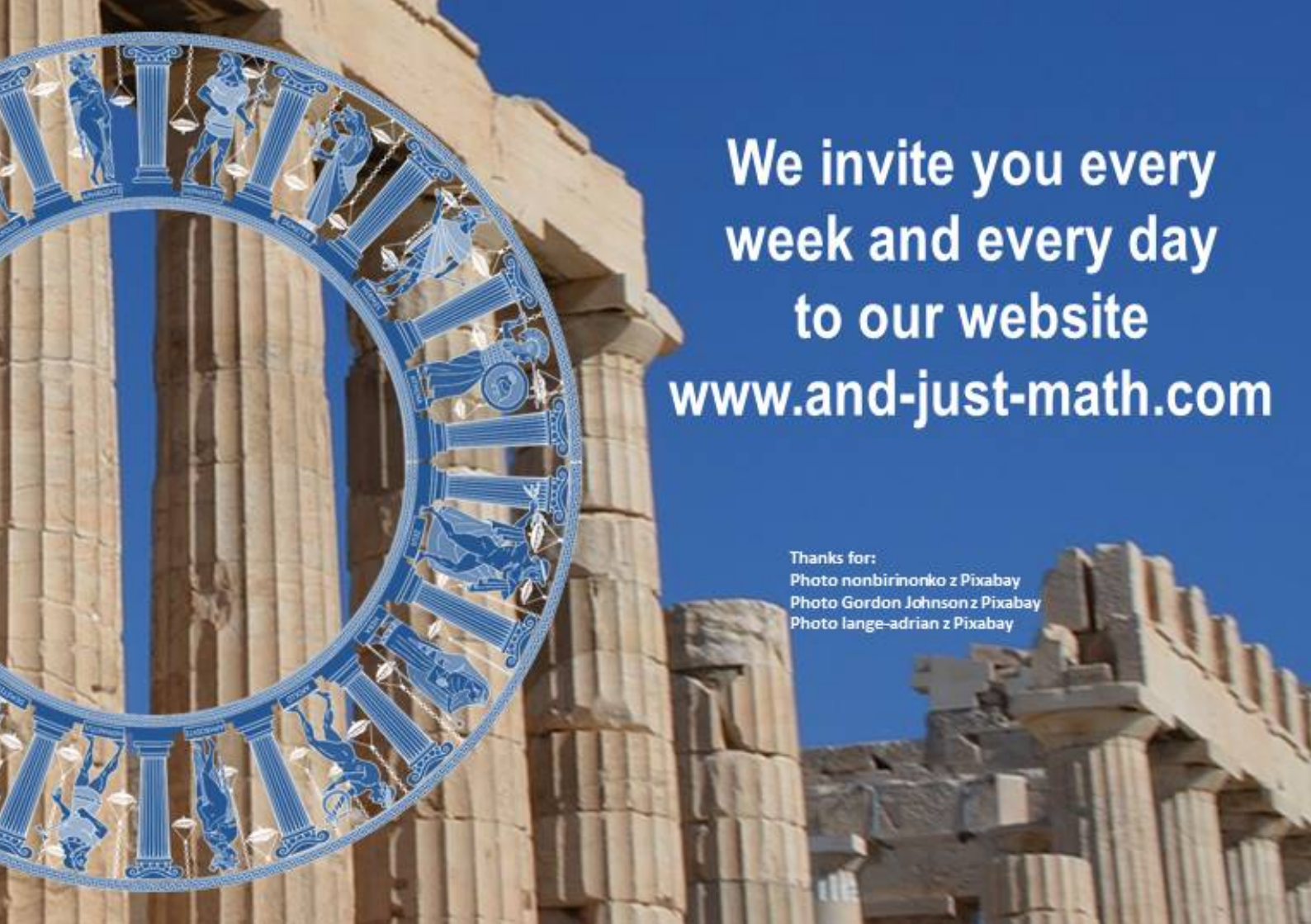
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{64 \times k^4 + 576 \times k^3 + 2012 \times k^2 + 2056 \times k + 363}{(2 \times k + 9) \times (2 \times k + 11) \times (16 \times k^2 - 9) \times (16 \times k^2 - 1)} = \frac{\pi}{8}$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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