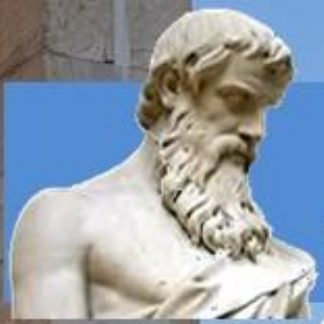

In memory of Justynka, my wife

FORMULAS

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

●●●●

FORMULA No. W37

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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

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FORMULA No.

D371

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^5 + 24 \times k^4 + 61 \times k^3 + 116 \times k^2 + 160 \times k + 64}{(k+2)^3 \times (k+3)^3 \times (k+4)^3 \times (4 \times k^2 - 1)} = \frac{533 - 54 \times \pi^2}{54}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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FORMULA No.

D372

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{256 \times k^4 + 128 \times k^3 - 576 \times k^2 - 1448 \times k - 1925}{(4 \times k + 1) \times (4 \times k + 5) \times (16 \times k^2 - 121) \times (16 \times k^2 - 49)} = \frac{\pi}{72}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULA No.

D373

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k^4 + 11 \times k^3 + 64 \times k^2 + 204 \times k + 256}{(k+2)^2 \times (k+3)^3 \times (k+4)^3} = \frac{6 \times \pi^2 - 59}{18}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D374

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3 \times k^4 + 15 \times k^3 + 27 \times k^2 + 19 \times k + 4}{k \times (k+1)^3 \times (k+2)^2} = \frac{2 \times \pi^2 - 11}{4}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D375

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(16 \times k^5 + 36 \times k^4 + 56 \times k^3 + 67 \times k^2 + 37 \times k + 6) \times (2 \times k)!}{(k+1)^2 \times (2 \times k + 1) \times (2 \times k + 3) \times (4 \times k - 3) \times (4 \times k + 1) \times k!^2 \times 2^{4 \times k + 1}} = \frac{\pi - 3}{3}$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D376

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$$\sum_{k=1}^{k=\infty} \frac{1}{4 \times (2 \times k - 1)^2 - 25} = \frac{\pi}{40} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

In memory of Justynka, my wife

FORMULAS

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Euclid

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FORMULA No.

D377

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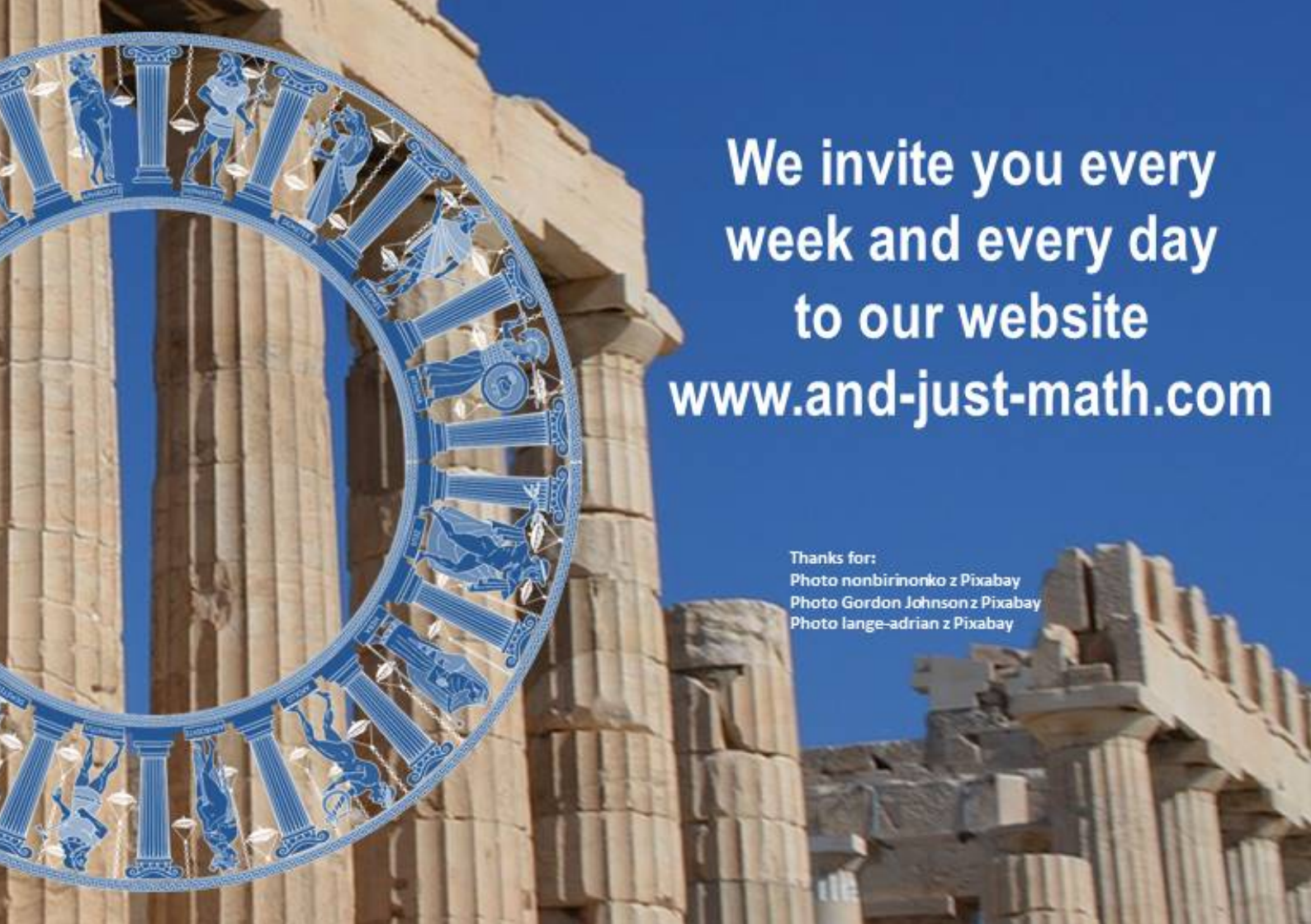
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5 \times k^4 + 25 \times k^3 + 43 \times k^2 + 27 \times k + 4}{k \times (k+1)^3 \times (k+2)^2} = \frac{10 \times \pi^2 - 57}{12}$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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