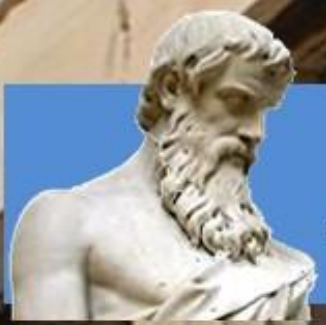
In memory of Justynka, my wife



FORMULAS

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

●●●

FORMULA No.

W28

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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

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FORMULA No.

D281

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arctg\left(\frac{\sqrt{3} \times (2 \times k - 1)}{2 \times (2 \times k^4 - 4 \times k^3 + 5 \times k^2 - 3 \times k + 3)}\right) = \frac{\pi}{6}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{4 \times k^2 + 44 \times k + 119}{(2 \times k + 11) \times (2 \times k + 13) \times (k + 5)! \times 2^{k-3}} = \frac{1}{195}$$

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$$\sum_{k=1}^{k=\infty} \frac{(2 \times k - 1) \times 7^{k-1}}{2^{k-1} \times (k+3)!} = \frac{1}{3}$$

$k \in N$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k^2 + 27 \times k + 27}{(k+2)! \times (k+1) \times (k+2) \times 7^k} = \frac{1}{4}$$

NEW MATHEMATICAL FORMULA DAILY

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FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{[2 \times (k+1)^2 \times (5 \times k! - 3) - k] \times k!}{(2 \times k! - 1) \times [2 \times (k+1)! - 1] \times [2 \times (k+2)! - 1]} = \frac{2}{3}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 3 \times k + 2}{k \times (k+1) \times (k+1)! \times 2^k} = 1$$

NEW MATHEMATICAL FORMULA DAILY

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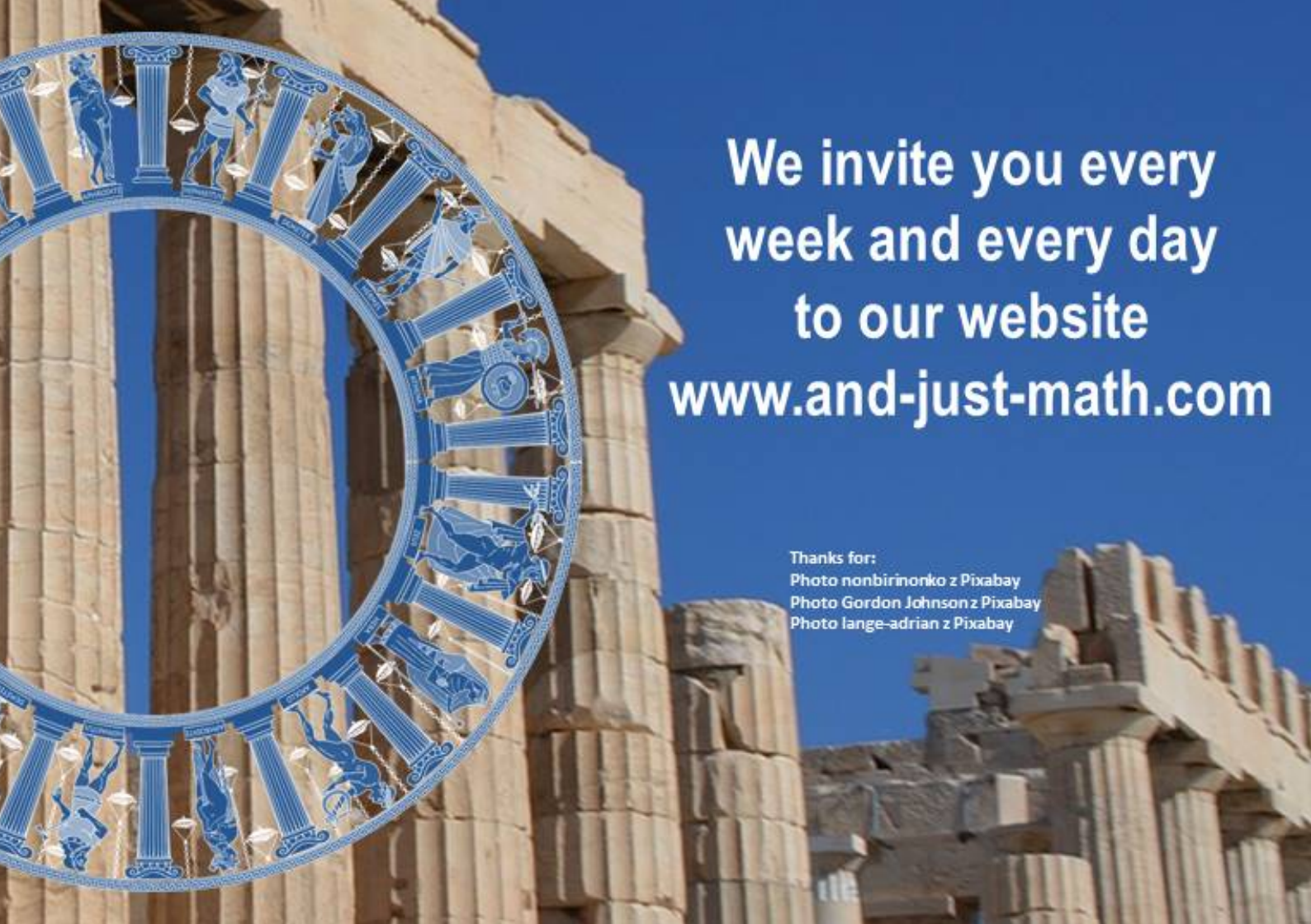
$$\sum_{k=1}^{k=\infty} \frac{\left(k^2+3\times k-9\right)\times 11^{k-1}}{(k+1)!\times(k+2)!} = \frac{1}{2} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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