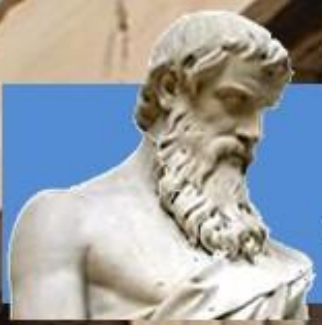
In memory of Justynka, my wife



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

In memory of Justynka, my wife

FORMULAS

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FORMULA No.

D281

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$$\prod_{k=1}^{k=\infty} \frac{k \times (k+4)}{(k+2)^2} = \frac{1}{6} \qquad k \in N$$

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{3^k}\right) = \frac{\pi}{4} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{7 \times k! \times \left(k^2 + k + 1\right) + 2^{k+1}}{(7 \times k \times k! + 2^{k+1}) \times [7 \times (k+1) \times (k+1)! + 2^{k+2}]} = \frac{1}{11}$$

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$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times 3^k}{(k+4)!} = \frac{1}{8} \qquad k \in N$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{42 \times k^2 - 40 \times k - 1}{(7 \times k - 6) \times (7 \times k + 1) \times (35 \times k - 34) \times (35 \times k + 1)} = \frac{1}{245}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin^2\left(\frac{\pi}{3\times 5^k}\right)+3,2\times sin^4\left(\frac{\pi}{3\times 5^k}\right)\right)=\frac{3\times\sqrt{3}}{2\times\pi}$$

NEW MATHEMATICAL FORMULA DAILY

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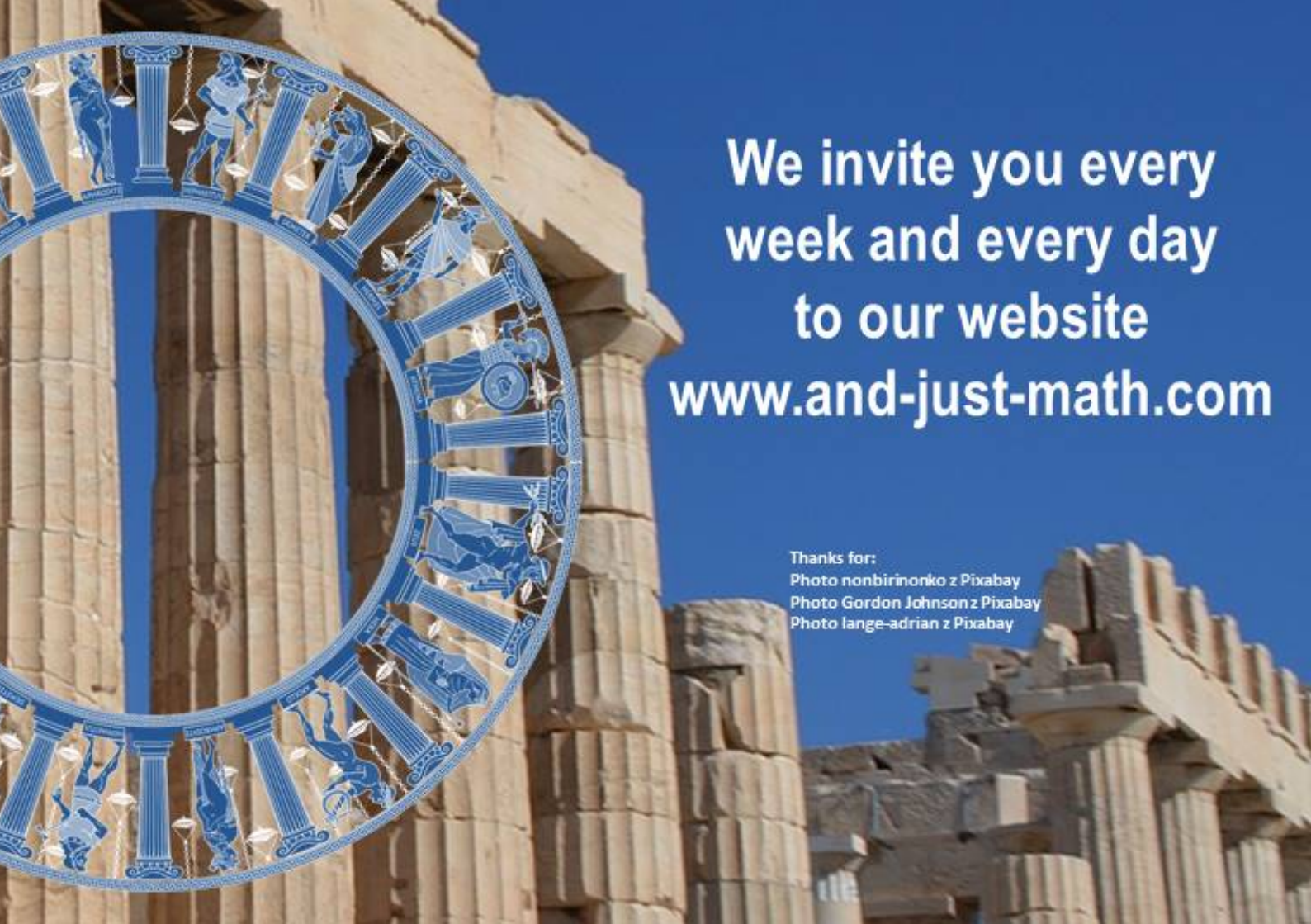
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} \times [(3 \times k + 14)^{k+1} + 9 \times (3 \times k + 8)^{k-1} - 6 \times (3 \times k + 11)^{k}]}{[(3 \times k + 14)^{k+1} - 3 \times (3 \times k + 11)^{k}] \times [(3 \times k + 11)^{k} - 3 \times (3 \times k + 8)^{k-1}]} = \frac{1}{11}$$

NEW MATHEMATICAL FORMULA DAILY



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Thanks for:
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