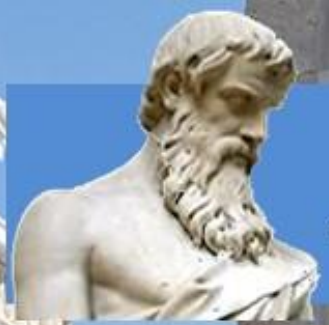

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W34

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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.

D341

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$$\sum_{k=1}^{k=\infty} \frac{k}{k^4 + 3 \times k^2 + 4} = \frac{1}{4} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{9 \times k! \times \left(k^2 + k + 1\right) + 2^{k+2}}{(9 \times k \times k! + 2^{k+2}) \times [9 \times (k+1) \times (k+1)! + 2^{k+3}]} = \frac{1}{17}$$

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

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$$k \in N$$

$$\prod_{k=1}^{k=\infty} \frac{(k+4)\times(k+5)\times(2\times k+3)\times(2\times k+5)}{(k+2)\times(k+3)\times(2\times k+7)\times(2\times k+9)} = \frac{147}{256}$$

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$$k \in N$$

$$\prod_{k=1}^{k=\infty}\left(1-4\times sin^2\left(\frac{3\times\pi}{8\times 5^k}\right)+3,2\times sin^4\left(\frac{3\times\pi}{8\times 5^k}\right)\right)=\frac{4\times\sqrt{2+\sqrt{2}}}{3\times\pi}$$

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{28 \times k^2 - 26 \times k - 1}{(7 \times k - 6) \times (7 \times k + 1) \times (21 \times k - 20) \times (21 \times k + 1)} = \frac{1}{147}$$

NEW MATHEMATICAL FORMULA DAILY

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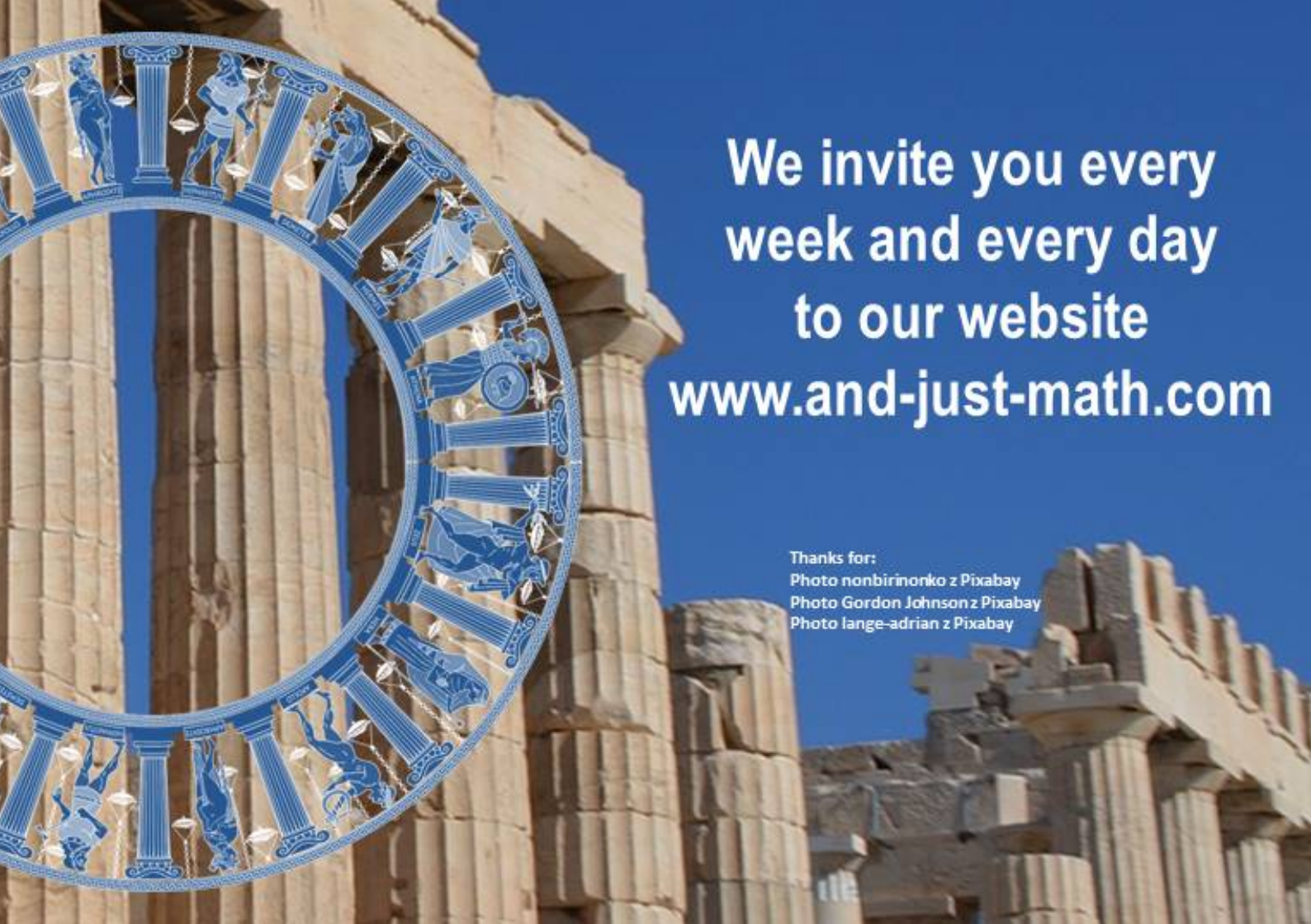
$$\sum_{k=1}^{k=\infty} \frac{k}{4 \times k^4 + 8 \times k^2 + 9} = \frac{1}{12} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY



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