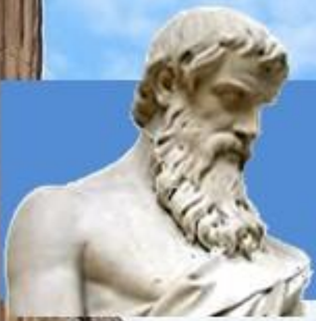

In memory of Justynka, my wife

FORMULAS

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

FORMULA No.

W16

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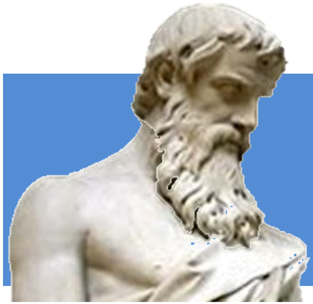
We are not mathematicians, but we love mathematics and create formulas ourselves.

‘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

FORMULA No.

D161

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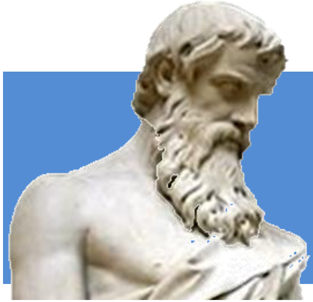
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times (p_{k+2}^{3} - p_{k+1}^{3}) \times p_{k+3}^{3} - p_k \times p_{k+1}^{2} \times (p_{k+3}^{3} - p_{k+2}^{3})}{p_k \times p_{k+1}^{3} \times p_{k+2}^{3} \times p_{k+3}^{3}} = \frac{58}{1125}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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Euclid

FORMULA No.

D162

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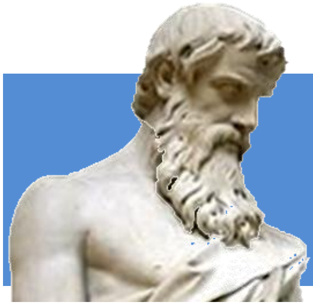
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(p_k + 1) \times p_{k+1} \times (p_{k+2} - p_{k+1}) \times (p_{k+3} + 4) - p_k \times (p_{k+1} + 4) \times (p_{k+3} - p_{k+2})}{p_k \times p_{k+1} \times (p_{k+1} + 4) \times (p_{k+2} + 4) \times (p_{k+3} + 4)} = \frac{10}{63}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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FORMULAS

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Euclid

FORMULA No.

D163

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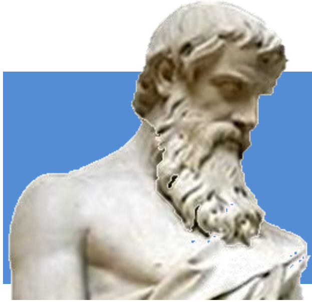
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+5} \times p_{k+2}! - p_{k+4} \times p_{k+1}!}{p_{k+4} \times p_{k+5} \times 2^{k} \times (k+1)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{66}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



In memory of Justynka, my wife

FORMULAS

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Euclid

FORMULA No.

D164

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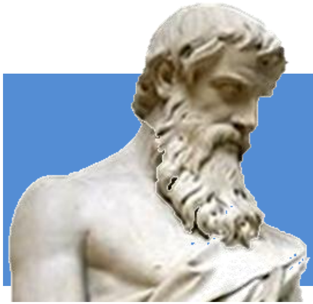
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{5^{k-1} \times [(k+2) \times p_{k+2}! - 5 \times p_{k+1}!]}{(k+2)! \times p_{k+1}! \times p_{k+2}!} = \frac{1}{12}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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Euclid

FORMULA No.

D165

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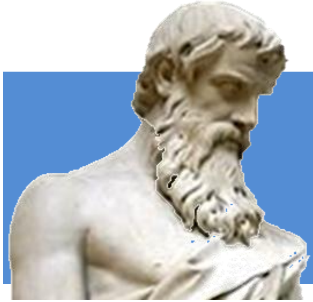
Hugo Steinhaus**

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times (k+1) \times p_{k+2} \times p_{k+8} - p_{k+1} \times p_{k+7}}{p_{k+1} \times p_{k+2} \times p_{k+7} \times p_{k+8} \times (k+1)! \times 2^{k}} = \frac{1}{57}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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FORMULA No.

D166

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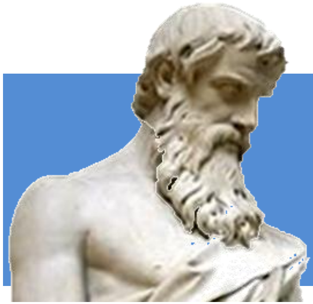
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times (k+3) \times p_{k+3} - (k+2) \times p_{k+1}}{p_{k+1} \times p_{k+2} \times p_{k+3} \times (k+3)!} = \frac{1}{45}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY



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FORMULA No.

D167

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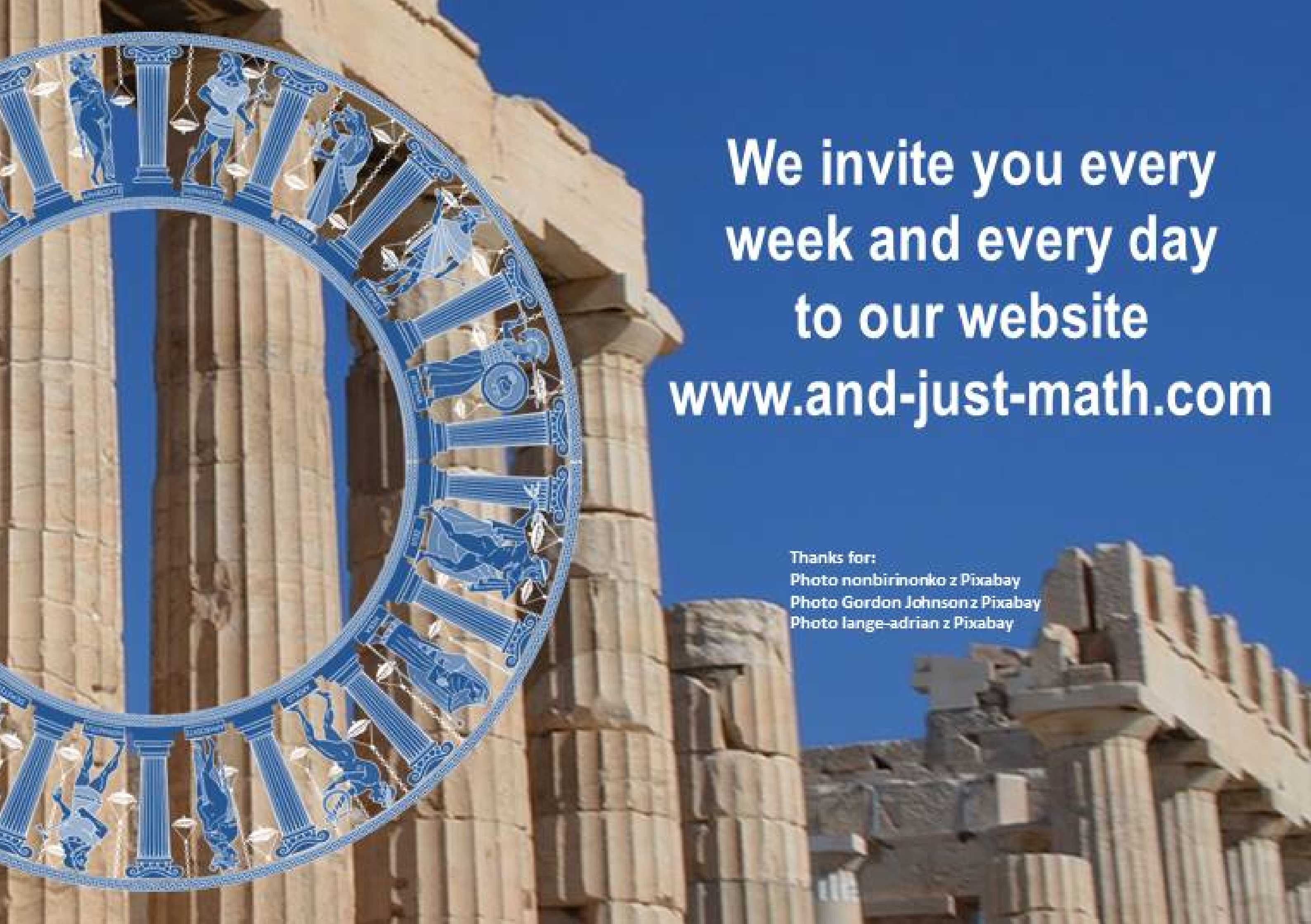
$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{{p_{k+2}}^{2} \times \left({p_k}^{\frac{1}{p_k}} - 1\right) - {p_{k+1}}^{2} \times \left({p_{k+1}}^{\frac{1}{p_{k+1}}} - 1\right)}{{p_{k+1}}^{2} \times {p_{k+2}}^{2}} = \frac{\sqrt{2} - 1}{9}$$

p_k (k-th prime number)

NEW MATHEMATICAL FORMULA DAILY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