



FORMULAS

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

FORMULA No.

W40

www.and-just-math.com

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



FORMULAS

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

FORMULA No.

D401

www.and-just-math.com

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

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{(k+1) \times (k+1)!}{[(k+1)! - 1] \times [(k+2)! - 1] + 1} \right) = \frac{\pi}{4} \quad k \in \mathbb{N}$$

NEW MATHEMATICAL FORMULA DAILY



FORMULAS

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

FORMULA No.

D402

www.and-just-math.com

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

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(k^2 - 2 \times k + 2) \times (k^2 + 1)} = 1 \quad k \in N$$

NEW MATHEMATICAL FORMULA DAILY



FORMULAS

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

FORMULA No.

D403

www.and-just-math.com

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

$$\sum_{k=1}^{k=\infty} \frac{k \times \sqrt{9 \times k^2 + 18 \times k + 10} - (k + 1) \times \sqrt{9 \times k^2 + 1} + 1}{k \times (k + 1)} =$$
$$= 4 - \sqrt{10} \quad k \in \mathbb{N}$$

NEW MATHEMATICAL FORMULA DAILY



FORMULAS

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

FORMULA No.

D404

www.and-just-math.com

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

$$\sum_{k=1}^{k=\infty} \sin\left(\frac{\pi}{5^k}\right) \times \sin\left(\frac{2 \times \pi}{3 \times 5^k}\right) = \frac{1}{4} \quad k \in \mathbb{N}$$

NEW MATHEMATICAL FORMULA DAILY



FORMULAS

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

FORMULA No.

D405

www.and-just-math.com

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

$$\sum_{k=1}^{k=\infty} \frac{1}{2^k} \times \operatorname{tg} \left(\frac{\pi}{3 \times 2^{k+2}} \right) = \frac{12 - (2 + \sqrt{3}) \times \pi}{\pi} \quad k \in \mathbb{N}$$

NEW MATHEMATICAL FORMULA DAILY



FORMULAS

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

FORMULA No.

D406

www.and-just-math.com

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

$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \operatorname{arc\,tg} \left(\frac{(2 + \sqrt{3}) \times 2^{k-1}}{(2^{k-1} - 1) \times (2^k - 1) \times (7 + 4 \times \sqrt{3}) + 2^{2 \times k - 1}} \right) = \frac{5 \times \pi}{12}$$

NEW MATHEMATICAL FORMULA DAILY



FORMULAS

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

FORMULA No.

D407

www.and-just-math.com

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

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \sin\left(\frac{5 \times \pi}{4 \times 3^{k+1}}\right) \times \cos\left(\frac{5 \times \pi}{8 \times 3^{k+1}}\right) =$$
$$= \frac{(3 \times \sqrt{2} + \sqrt{6} + 2) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{16} \quad k \in \mathbb{N}$$

NEW MATHEMATICAL FORMULA DAILY



We invite you every
week and every day
to our website
www.and-just-math.com

Thanks for:
Photo nonbirinonko z Pixabay
Photo Gordon Johnson z Pixabay
Photo lange-adrian z Pixabay