FORMULAS

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

FORMULA No.

W31

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.

D311

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

$$\sum_{k=1}^{k=\infty} \frac{sin\left(\frac{\pi}{5 \times 3^{k}}\right)}{cos\left(\frac{\pi}{5 \times 3^{k-1}}\right)} = \frac{\sqrt{5 - 2 \times \sqrt{5}}}{2} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D312

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

$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{9}{10 \times k^2 + 44 \times k + 54}\right) = arc\,tg\left(\frac{1}{3}\right)$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D313

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

$$\prod_{k=1}^{k=\infty} cos\left(\frac{3\times\pi}{2^{2\times k+3}}\right)\times cos\left(\frac{3\times\pi}{2^{2\times k+4}}\right)=\frac{8\times\sqrt{2-\sqrt{2-\sqrt{2}}}}{3\times\pi} \qquad k\in N$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D314

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

$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\ ctg\left(2 \times \left(1 + \frac{\sqrt{5}}{5}\right) \times k^2 - 2 \times \left(1 + \frac{\sqrt{5}}{5} - \sqrt{5 - 2 \times \sqrt{5}}\right) \times k - \sqrt{25 + 10 \times \sqrt{5}} + 5 + 2 \times \sqrt{5 + 2 \times \sqrt{5}} - 2 \times \sqrt{5}\right) = \frac{3 \times \pi}{10}$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D315

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

$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{100}{10100 \times k^2 - 10080 \times k - 9}\right) = arc\,tg(10)$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D316

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

$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D317

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

$$k \in N$$

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

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