FORMULAS

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

FORMULA No.

W50

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.

D501

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

$$\sum_{k=1}^{k=\infty} arc\ ctg\left(2 \times k^2\right) = \frac{\pi}{4} \qquad k \in N$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D502

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

$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D503

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

$$k \in N$$

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

$$= \frac{\left(3 \times \sqrt{2} + 2 \times \sqrt{3} + \sqrt{6} + 4\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}} - 8}{16}$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D504

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

$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D505

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

$$k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D506

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

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2^k}{\left(2+\sqrt{3}\right) \times 2^{2 \times k} - 3 \times \left(1+\sqrt{3}\right) \times 2^k + 4} = 1$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

FORMULA No.

D507

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

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1) \times \left(k^4 + 4 \times k^3 + 4 \times k^2 + k + 2\right)}{(k+2)! \times (k^4 + 4 \times k^3 + 3 \times k^2 - 2 \times k - 1)} = 1$$

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