



FORMULA No.

D031

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

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

$$\prod_{k=1}^{k=\infty} \frac{\cos\left(\frac{5\times\pi}{3\times2^{k+2}}\right)}{\cos^2\left(\frac{5\times\pi}{3\times2^{k+3}}\right)} = \frac{\pi\times5\times\left(2+\sqrt{6}-\sqrt{2}-\sqrt{3}\right)}{24}$$



FORMULA No.

D032

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

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

$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k + 1}{(7 + 3 \times \sqrt{5}) \times k^4 + 2 \times (7 + 3 \times \sqrt{5}) \times k^3 - 3 \times (1 + \sqrt{5}) \times k^2 - 2 \times (5 + 3 \times \sqrt{5}) \times k + 5 - 3 \times \sqrt{5}}$$

$$= \frac{1}{2}$$



FORMULA No.

D033

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

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

$$\sum_{k=1}^{k=\infty} sin\left(\frac{3^k \times \pi}{7^k}\right) \times sin\left(\frac{2 \times 3^k \times \pi}{5 \times 7^k}\right) = \frac{3 + \sqrt{5}}{8}$$



FORMULA No.

D034

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

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

$$k \in N$$

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



FORMULA No.

D035

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

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

 $k \in N$  $k = \infty$  $\sum_{k=1}^{\infty} \frac{k^4 + 4 \times k^3 + 6 \times k^2 + 4 \times k + 1}{(k+1)^4 \times (2 \times k + 1) \times (2 \times k + 3)} = \frac{1}{6}$ 



FORMULA No.

D036

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

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

$$k \in N$$
$$\sum_{k=1}^{k=\infty} \frac{3^{k-1} \times \left[ (3 \times k + 5)^{k+1} + 9 \times (3 \times k - 1)^{k-1} - 6 \times (3 \times k + 2)^k \right]}{\left[ (3 \times k + 5)^{k+1} - 3 \times (3 \times k + 2)^k \right] \times \left[ (3 \times k + 2)^k - 3 \times (3 \times k - 1)^{k-1} \right]} = \frac{1}{2}$$



FORMULA No.

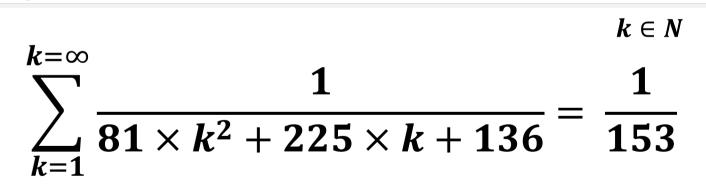
D037

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

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



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