'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

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

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$$\prod_{k=1}^{k=\infty} \cos\frac{5\times\pi}{3\times 2^{k+3}} \quad k\in N$$

$$= \frac{3\times\left(3\times\sqrt{2}+\sqrt{6}+2\right)\times\sqrt{8+2\times\sqrt{6}-4\times\sqrt{2}-4\times\sqrt{3}}}{5\times\pi}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(16 \times k^2 - 32 \times k + 25) \times (16 \times k^2 + 9)} = \frac{1}{144}$$

NEW MATHEMATICAL FORMULA DAILY

FORMULAS

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

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$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 40 \times k + 201}{(k+9) \times (k+10) \times (k+11) \times (k+12)} = \frac{7}{40} \qquad k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{k+1}{16 \times k^4 + 64 \times k^3 + 120 \times k^2 + 112 \times k + 65} = \frac{1}{104}$$

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$$\sum_{k=1}^{k=\infty} sin\left(\frac{5 \times \pi}{2^{2 \times k+4}}\right) \times cos\left(\frac{25 \times \pi}{3 \times 2^{2 \times k+4}}\right) \qquad k \in N$$

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

NEW MATHEMATICAL FORMULA DAILY

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

Thanks for:
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