FORMULAS

'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

1 WEEK = 7 DAYS = 7 FORMULAS

NEW MATHEMATICAL FORMULA DAILY

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} tg\left(\frac{\pi}{4 \times 3^{k+1}}\right) \times \left[1 + tg\left(\frac{\pi}{8 \times 3^k}\right) \times tg\left(\frac{\pi}{8 \times 3^{k+1}}\right)\right]$$
$$= \sqrt{6} - \sqrt{3} + \sqrt{2} - 2$$

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$$k \in N$$

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

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

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$$k \in N$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^k \times 3^{4 \times k} \times \left(\frac{\pi}{2}\right)^{2 \times k} \times \frac{(2 \times k + 1) \times 2^{2 \times k} - 9 \times \pi}{(2 \times k + 1)!}$$

$$= 9 \times \pi - 4$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} (-1)^{k-1} \times \frac{\sin\left(\frac{5 \times \pi}{8 \times 3^k}\right) + \sin\left(\frac{5 \times \pi}{8 \times 3^{k+1}}\right)}{tg\left(\frac{5 \times \pi}{4 \times 3^{k+1}}\right)}$$

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

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{(k+1)^2 \times (k^6 + k^5 - 4 \times k^4 - k^3 + 13 \times k^2 + 12 \times k + 4)}{k! \times (k^3 - k^2 - 2 \times k - 1) \times (k^3 + 2 \times k^2 - k - 3)} = -\frac{4}{3}$$

NEW MATHEMATICAL FORMULA DAILY

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