FORMULAS

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

'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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$$\sum_{1}^{n} \frac{8 \times k + 13}{16 \times k^4 + 104 \times k^3 + 269 \times k^2 + 325 \times k + 168} \quad k, n \in N$$

$$= \frac{4 \times n^2 + 17 \times n}{84 \times n^2 + 357 \times n + 441}$$

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$$\frac{5}{k^2 + 7 \times k + 6}$$

$$= \frac{1}{k^2 + 3 \times k + 2} + \frac{1}{k^2 + 5 \times k + 6} + \frac{1}{k^2 + 7 \times k + 12}$$

$$+ \frac{1}{k^2 + 9 \times k + 20} + \frac{1}{k^2 + 11 \times k + 30}$$

$$k \in N$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{1}{4 \times k \times \sqrt{k+1} + 4 \times k \times \sqrt{k} + 4 \times \sqrt{k \times (k+1)} + 4 \times k + \sqrt{k+1} + 5 \times \sqrt{k} + 2}$$
$$= \frac{2 \times n - 3 \times \sqrt{n+1} + 3}{12 \times n + 9}$$

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$$k, n \in N$$

$$\sum_{k=1}^{k=n} \frac{-k \times ln(k+1) + k \times lnk + 16 \times ln(k+1) - 15 \times lnk + 12}{9 \times k^2 + 12 \times k \times ln(k+1) + 12 \times k \times lnk + 9 \times k + 16 \times lnk \times ln(k+1) + 12 \times lnk}$$

$$= \frac{5 \times ln(n+1) + 4 \times n}{4 \times ln(n+1) + 3 \times n + 3}$$

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$$\sum_{k=1}^{k=n} \frac{2 \times k + 5}{k^4 + 10 \times k^3 + 37 \times k^2 + 60 \times k + 36} = \frac{n^2 + 6 \times n}{9 \times n^2 + 54 \times n + 81}$$

$$k, n \in N$$

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$$\sum_{k=1}^{k=n} \frac{tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right) - tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right)}{81\times tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right)\times tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right) - 9\times tg\left(\frac{k+1}{k+2}\times\frac{\pi}{2}\right) - 9\times tg\left(\frac{k}{k+1}\times\frac{\pi}{2}\right) + 1} \qquad k,n \in N$$

$$= \frac{tg\left(\frac{n+1}{n+2}\times\frac{\pi}{2}\right) - 1}{72\times tg\left(\frac{n+1}{n+2}\times\frac{\pi}{2}\right) - 8}$$

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$$\sum_{k=1}^{k=n} \frac{2^{k+1} + 9}{2^{2\times k+3} + 27 \times k \times 2^{k+1} + 9 \times 2^{k+1} + 81 \times k^2 + 81 \times k} \qquad k, n \in N$$

$$= \frac{2^{n+2} + 9 \times n - 4}{13 \times 2^{n+2} + 117 \times n + 117}$$

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

Thanks for:
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