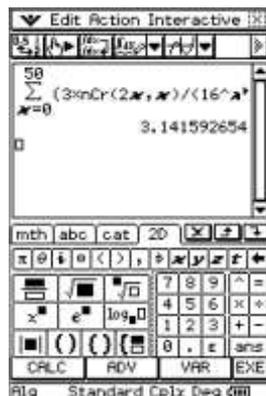




Tap the  icon to convert to a decimal.



Correct to 9 dp

Try these other infinite series to approximate π :

$$\pi = \sqrt{12} \sum_{k=0}^{\infty} \frac{(-3)^{-k}}{2k+1} = \sqrt{12} \sum_{k=0}^{\infty} \frac{\left(-\frac{1}{3}\right)^k}{2k+1} = \sqrt{12} \left(1 - \frac{1}{3 \cdot 3} + \frac{1}{5 \cdot 3^2} - \frac{1}{7 \cdot 3^3} + \dots\right)$$

$$\frac{1}{\pi} = \frac{2\sqrt{2}}{9801} \sum_{k=0}^{\infty} \frac{(4k)!(1103 + 26390k)}{(k!)^4 396^{4k}}$$

$$\frac{1}{\pi} = 12 \sum_{k=0}^{\infty} \frac{(-1)^k (6k)!(13591409 + 545140134k)}{(3k)!(k!)^3 640320^{3k+3/2}}$$

$$\frac{\pi}{2} = \sum_{k=0}^{\infty} \frac{k!}{(2k+1)!!} = \sum_{k=0}^{\infty} \frac{2^k k!^2}{(2k+1)!} = 1 + \frac{1}{3} \left(1 + \frac{2}{5} \left(1 + \frac{3}{7} (1 + \dots)\right)\right)$$

Source: https://en.wikipedia.org/wiki/Approximations_of_pi

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www.casio.edu.monacocorp.co.nz or <http://graphic-technologies.co.nz>