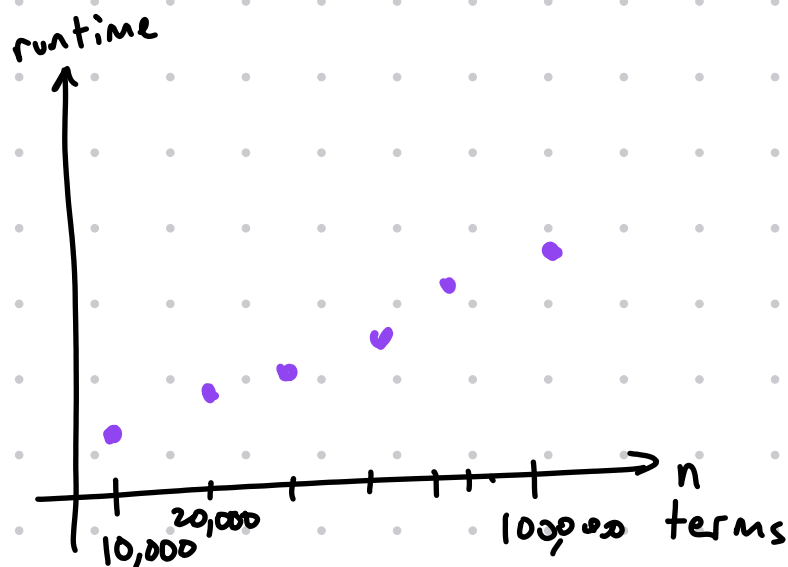


RUNTIME CALCULATIONS



Do[

code to run

, {n, 10000, 100000, 100000}]

↑
start

↑
stop

↑
step

ARCTANGENT SERIES

$$\arctan(x) = \frac{x^1}{1} - \frac{x^3}{3} + \frac{x^5}{5} - \frac{x^7}{7} + \dots$$

$$\frac{\pi}{4} = 4 \arctan\left(\frac{1}{5}\right) - \arctan\left(\frac{1}{239}\right)$$

$$\frac{\pi}{4} = 4 \left(\frac{1}{5} - \frac{\left(\frac{1}{5}\right)^3}{3} + \frac{\left(\frac{1}{5}\right)^5}{5} - \dots \right) - \left(\frac{1}{239} - \frac{\left(\frac{1}{239}\right)^3}{3} + \frac{\left(\frac{1}{239}\right)^5}{5} - \dots \right)$$