

## **Execute Result**

pi = 0.785319645811445 , n = 3184 , error = 0.7500249929238642 pi = 0.5235514642438139 , n = 6 , error = 0.8333483930051946

## Questions

## Which converges faster?

The second,  $\frac{\pi}{6} = \tan^{-1} \frac{1}{\sqrt{3}}$ 

## Why?

Because  $\frac{1}{\sqrt{3}}<1,$  for all integer n>0 ,  $\frac{\frac{1}{\sqrt{3}}^n}{n}$  converge faster than  $\frac{1^n}{n}$ 

