



PI AS A CONTINUED FRACTION

Fill in the gaps in the table below and then use it to help you find better approximations of π using continued fractions.

Find an approximation of π that is accurate to at least 9 decimal places.

Continued fraction	One fraction	Decimal expansion	Decimal places of accuracy
$3 + \frac{1}{7}$	$\frac{22}{7}$	3.14285714285	2
$3 + \frac{1}{7 + \frac{1}{15}}$			
$3 + \frac{1}{7 + \frac{1}{15 + \frac{1}{1}}}$			