

n	7^n	2^n	n!
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

	Arithmetic Sequence	Geometric Sequence
Definition		
Explicit Formula		
Recursive Formula		
Sigma Notation		
Finite Sum		
Infinite Sum		

$$e^x = 1 + (x) + \frac{1}{2!}(x)^2 + \frac{1}{3!}(x)^3 + \frac{1}{4!}(x)^4 + \dots = \sum_{n=0}^{\infty} \frac{1}{n!}(x)^n$$

from calculator: $e^2 \approx$

n	$e^x = \sum_{n=0}^n \frac{1}{n!}(x)^n$ $x = 2$	e^2 (approx)	Error
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

$$e^x = 1 + (x) + \frac{1}{2!}(x)^2 + \frac{1}{3!}(x)^3 + \frac{1}{4!}(x)^4 + \dots = \sum_{n=0}^{\infty} \frac{1}{n!}(x)^n$$

x	$e^x = \sum_{n=0}^9 \frac{1}{n!}(x)^n \quad n=9$	e^x	Error
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			