

1.

n	$n!$
1	1
2	2
3	6
4	24
5	120
6	720
7	5040

2.

$$e^x \approx 1 + x + x^2/2! + \\ + x^3/3! + x^4/4! + \\ + x^5/5!$$

3.

$$|x| = \begin{cases} x & \text{ha } x \geq 0 \\ -x & \text{ha } x < 0 \end{cases}$$

4.

$$\begin{bmatrix} x_{11} & x_{12} \\ x_{21} & x_{22} \end{bmatrix}$$

5. (a)

$$\sum_{k=1}^{\infty} \frac{1}{2^k} = 1$$

(b)

$$\pi = \sqrt{6 \sum_{k=1}^{\infty} \frac{1}{k^2}}$$