

3)

$$\text{Senh}\left(\frac{\pi}{3}\right) = x + \frac{x^3}{3} + \frac{x^5}{5} + \frac{x^7}{7} + \frac{x^9}{9} + \dots$$

1

$$\text{senh}\left(\frac{\pi}{3}\right) = 1,249367$$

2

$$\text{senh}\left(\frac{\pi}{3}\right) = 1,249367 + \frac{\frac{\pi^3}{3}}{3!} = 2,30733723$$

$$\text{Error} = \frac{|2,30733723 - 1,249367|}{2,30733723} \times 100 = 45,85\%$$

3

$$\text{senh}\left(\frac{\pi}{3}\right) = 2,30733723 + \frac{\frac{\pi^5}{3}}{5!} = 2,317831732$$

$$\text{Error} = \frac{|2,317831732 - 2,30733723|}{2,317831732} \times 100 = 0,45\%$$

4.

$$\sinh\left(\frac{\pi}{3}\right) = 2,317831732 + \frac{\pi^7}{7!} = 2,31105744$$

$$Error = \frac{|2,317831732 - 2,31105744|}{2,317831732} \times 100 = 0,29\%$$

5.

$$\sinh\left(\frac{\pi}{3}\right) = 2,31105744 + \frac{\pi^9}{9!} = 2,311061613$$

$$Error = \frac{|2,31105744 - 2,311061613|}{2,31105744} \times 100 = 0,000180566\%$$

2do Punto:

$$S = \{0, 2\}$$

$$(x+y)\%4 \rightarrow (2+0)\%4=2 \text{ Verdadero}$$

$$X*1 = X$$

$$(x*y)/4 \rightarrow (1*2)/4 \rightarrow 1/2 \text{ No es algebra booleana}$$