

$$\frac{\sin(x+x^2)^n}{n!} \frac{1}{\sqrt{1-x^2}}$$

0, 0, 0

$$\textcircled{2} \sin z = z - \frac{1}{3!} z^3 + \frac{1}{5!} z^5$$

↓ 2, 5, 7, 10

$$\textcircled{3} 1+t^2 = (1-t)(1+t)$$

$$\sum_{n=0}^{\infty} \frac{z^n}{(1+z)}$$

$$\textcircled{4} \tan(a+b) = \tan^{-1} C$$

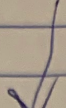
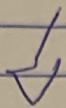
$$a+b = \tan^{-1} C$$

$$\tan^{-1} C = a+b$$

$$C = \frac{\tan a + \tan b}{1 - \tan a \tan b}$$



$$\textcircled{2} \quad \tan^{-1} \frac{1}{2} + \tan^{-1} \frac{1}{3} = \frac{\pi}{4}$$



$$\frac{\pi}{12}$$

Formula above

$$\tan^{-1} \frac{2 + \frac{1}{3}}{1 - \frac{1}{3}} = \tan^{-1} \frac{\frac{5}{3}}{\frac{2}{3}} = \frac{\pi}{4}$$