## 每日一題05

單元1 數與式-乘法公式 2025.09.05

## 114翰林第一次模卷※13

$$\Rightarrow x = 2 + \sqrt{3}$$
,  $\exists x^2 + x + 1 + \frac{1}{x} + \frac{1}{x^2} = \underbrace{(3-1)(3-2)}_{(3-1)(3-2)}$ 

(501)

原式=
$$\chi^2 + \frac{1}{\chi^2} + \chi + \frac{1}{\chi} + 1$$
  
=  $(\chi + \frac{1}{\chi})^2 - \lambda \cdot \chi \cdot \frac{1}{\chi} + \chi + \frac{1}{\chi} + 1$   
=  $(\chi + \frac{1}{\chi})^2 + (\chi + \frac{1}{\chi}) - 1$   
 $\therefore \chi = 2 + 3 \Rightarrow \frac{1}{\chi} = \frac{1}{2 + 5} = \lambda - 5$   
 $\therefore \chi + \frac{1}{\chi} = 2 + 5 + \lambda - 5 = 4$   
 $\text{ff} \vec{x} = 4^2 + 4 - 1 = 19$