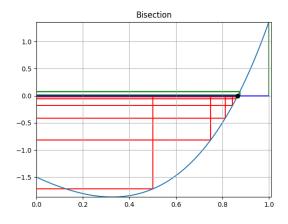
### 數值方法

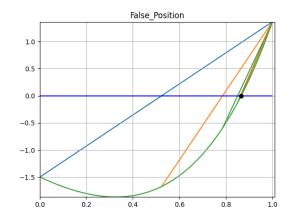
資工三乙

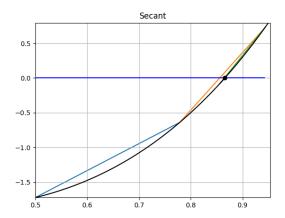
408262143

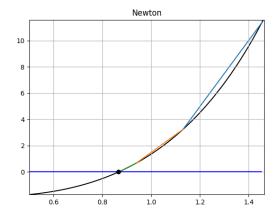
林采昕

## Q1: $e^{2x} - 3\sin(x) - x - 2.5$



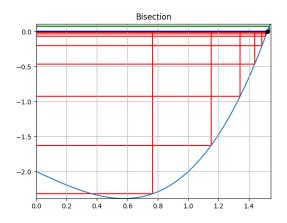


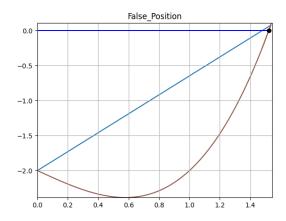


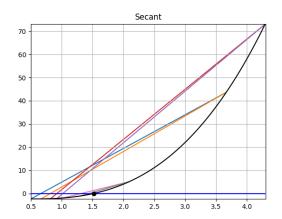


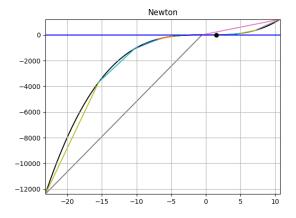
Fixed Point: 發散

#### Q2: $x^3 - x - 2$



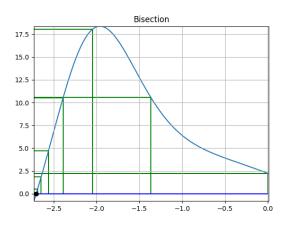


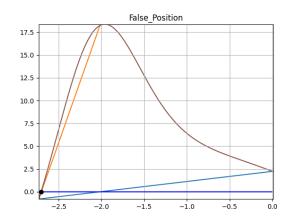


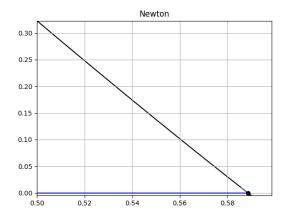


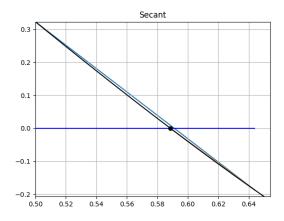
Fixed Point: 發散

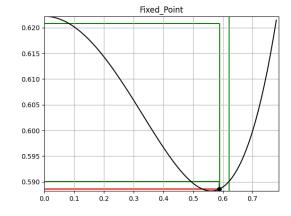
Q4: 
$$e^{1.63x\sin(x)} - 2.38x^2 - 3.6x + 1.24$$











# 結論

Method	Advantage	Disadvantage
Bisection	想法簡單	會優先往終點靠近
False Position	速度Bisection較快	若兩點平行,則不 會有結果
Newton	速度快	若斜率為 <b>0</b> ,則不會有結果
Secant	不需要微分	若斜率為 <b>0</b> ,則不會有結果
Fixed Point	不需要微分	若圖為發散,則無 解