

1. 請框出答案. 2. 禁止作弊!

1. Use the Steepest Descent Method with $\mathbf{x}^{(0)} = [0, 0, 0]$ to find a reasonable $\mathbf{x}^{(1)}$ for the following nonlinear systems.

$$\begin{cases} 15x_1 + x_2^2 - 4x_3 &= 13 \\ x_1^2 + 10x_2 - x_3 &= 11 \\ x_2^3 - 25x_3 &= -22 \end{cases}.$$

本次為開書考，截止時間是 06:02 23:59

** 請清楚標明學號姓名及答案之後拍照上傳到 **google classroom**