

Homework 5

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1 Problem 1

Find the Newton's method matrix in iteration formula:

$$\begin{cases} x^2 + 2y^2 = 0 \\ xy - y = 0 \end{cases}$$

2 Problem 2

Find the Newton's method matrix in iteration formula:

$$\begin{cases} x_1 + x_2^3 + 2x_3^2 = 0 \\ -x_2^2 + x_3 = 0 \\ \sin x_1 + x_1 x_2 + x_3 = 0 \end{cases}$$