

NAME :

1. Give all MATLAB commands to solve the linear system
$$\begin{cases} 6x_1 + 3x_2 = 4 \\ -2x_1 + x_2 = 0. \end{cases}$$

Give also the value of the solution, as accurately as computed by MATLAB.

What are the MATLAB command(s) to verify the solution? Compute the error.

2. Plot the surface $z = \sin\left(7e^{-x^2-y^2}\right)$ for x and y in the interval $[-3, +3]$, using a 101-by-101 grid of points. Give all MATLAB commands.

Alternative: Bring to class on Monday the answers to assignments 2, 3, and 4 of the first lecture on MATLAB; and assignments 6 and 8 of MATLAB lecture 2.