MATH 426 HW3

OD

2024-02-29

Your main goal should be to write a code to solve the system

$$Ax = b$$

using an

$$LU$$

decomposition with pviots. Please work with your classmates on the Discord server. An algorithm is proposed in the textbook. Do your best, as a group, to optimize the code. This code will not be collected from any individual. Instead turn in your results to the problems below: Let

$$A_n$$

denote

$$n \times n$$

matrix whose form is illustrated by