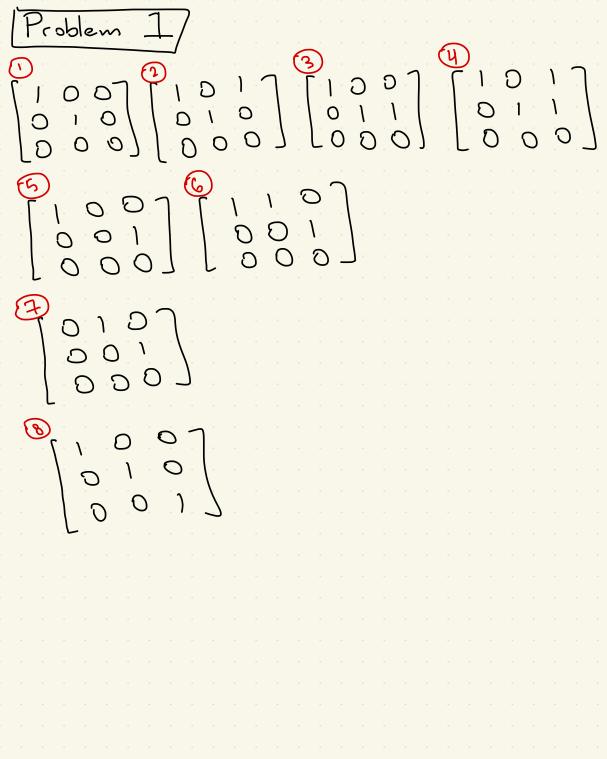
Homework 2 Solutions CAS CS 132 Fall 2024



Problem 2.1

solutions.

Problem 2.2

$$x_{1} = -3$$
 $x_{2} = 3$
 $x_{3} = -6$
 $x_{4} = 1$

Problem 2.3

Problem 7.4

io solution

Problem 3

$$\begin{cases} 1 & 0 & -\frac{1}{3} & 1 \\ 0 & 1 & \frac{1}{4} & 4 \\ 0 & 0 & 0 \end{cases}$$

$$x_{1} = 1 + \frac{1}{3} \times_{3}$$

$$X_{1} = 1 + 3^{3}$$
 $X_{2} = 4 - \frac{1}{4} \times 3$
 $X_{3} = 4 + \frac{1}{4} \times 3$

Problem 4.1

Problem 4.2

 $X_1 = 4 + 3x_2 - 7x_4$ X, is free x3 = (-2) + x4

$$\times$$

xy is free

[1 -3 0 2 4]

Note: The solution can have any

number of all-tero rows at the end