

Lecture 8 problems
8.1

Q1: By way of contradiction, the coefficient of x_0 is not one when it must be.

Q2: The null space of a system must contain all linear combinations of the values in that space.

Q3: ~~There is a~~ For any system there is the solution $x=0$.

For $Rx = 0$, we get 8.2

$$X = \begin{bmatrix} -2 \\ 1 \\ 6 \end{bmatrix} \text{ and}$$

for

$Rx = d$, we get

$$X = \begin{bmatrix} -3 \\ 1 \\ 2 \end{bmatrix}$$

2.3

True