Midterm Calculus

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Class: AO2.

Problem 1:

now reduce the augmented matrix:

$$\begin{bmatrix} 1 & -3 & -2 & 0 \\ 2 & -1 & 3 & 12 \end{bmatrix} \sim \begin{bmatrix} 1 & -3 & -2 & 0 \\ 0 & 5 & 7 & 12 \end{bmatrix}$$

$$\Rightarrow x_1 + \frac{11}{5} x_3 = \frac{36}{5} \Rightarrow x_1 = -\frac{11}{5} x_3 + \frac{36}{5}$$

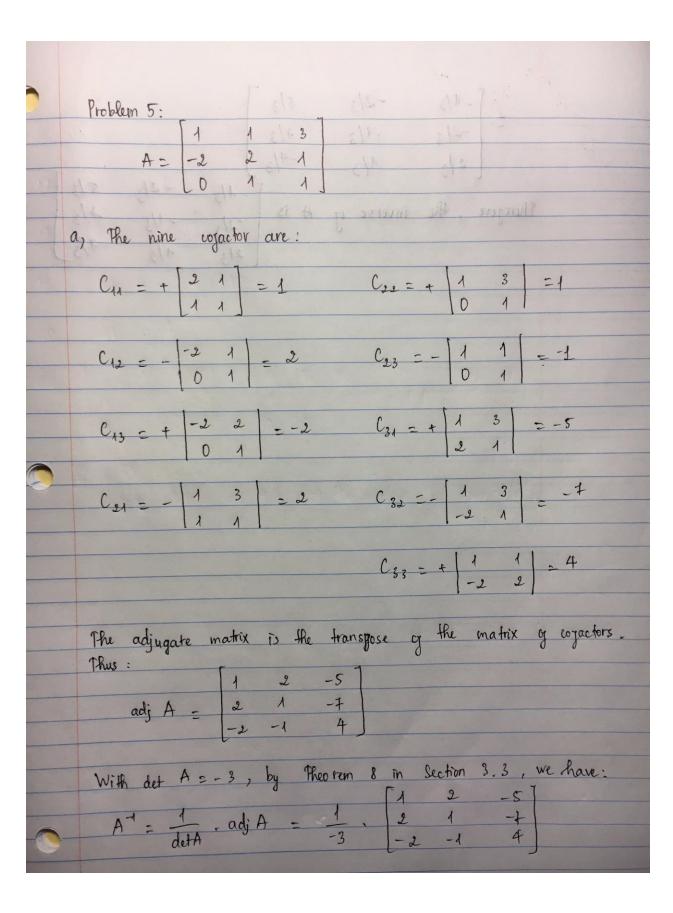
$$\frac{\chi_2 + \frac{1}{5}\chi_3 = \frac{12}{5}}{5} \Rightarrow \chi_2 = \frac{-1}{5}\chi_3 + \frac{12}{5}$$

The general solution has your

$$= \chi_3 \begin{bmatrix} -\frac{11}{5} \\ \frac{7}{5} \\ 1 \end{bmatrix} + \begin{bmatrix} \frac{36}{5} \\ \frac{12}{5} \\ 0 \end{bmatrix}$$

Geometrically the solution set is the line through

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