

Quiz 05

(2 points) The location of Exam 1 is _____.

Solution Sets of Linear Systems

(18 points) Describe all solutions of $A\mathbf{x} = \mathbf{b}$, where

$$A = \begin{bmatrix} 3 & 5 & -4 \\ -3 & -2 & 4 \\ 6 & 1 & -8 \end{bmatrix} \quad \text{and} \quad \mathbf{b} = \begin{bmatrix} 7 \\ -1 \\ -4 \end{bmatrix}$$

Hint: try to write the solution in the form $\mathbf{x} = \mathbf{p} + x_3\mathbf{v}$, where \mathbf{p} is a particular solution and x_3 is a free variable.

Please answer the question in complete sentences in a **clearly** prepared manuscript. (No credits for the answer without necessary explanation.)

Quiz 05

Special number: _____ Name: _____
Section Number: _____ PUID: _____