

Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided. You have 15 minutes to complete this exam.

Name: _____

1. (8 pts) Find the inverse of the following matrix:

$$A = \begin{bmatrix} 3 & 2 \\ 8 & 5 \end{bmatrix}$$

2. (8 pts) Find a basis for the column space and null space of the following matrix:

$$A = \begin{bmatrix} 4 & 5 & 9 & -2 \\ 6 & 5 & 1 & 12 \\ 3 & 4 & 8 & -3 \end{bmatrix}$$