Trigonometry   **Name:**   _____

> The majority of the credit you receive will be based on the completeness and the clarity of your responses. **Show all of your work and justify your solutions as much as possible.**
> This is a 15 minute quiz and has 2 questions, for a total of 10 points

(6 points)   1. Use elementary row operations to find the inverse matrix of

$$A = \begin{bmatrix} 2 & -5 \\ -1 & 3 \end{bmatrix}$$

(5 points)   2. Use the inverse matrix found in problem 1 to solve the system of linear equations:

$$\begin{cases} 2x - 5y & = -3 \\ -x + 3y & = 2 \end{cases}$$