## QUIZ 10 - MATH 310 YOUR NAME:

Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [4 points] Use your preferred method to compute by hand  $A^{-1}$  if  $A = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 3 \\ 2 & 0 & -5 \end{bmatrix}$ .

 $2.\ [6 \ {\rm points}]$  Find the eigenvalues and the corresponding eigenvectors of the matrix

$$A = \left[ \begin{array}{cc} 5 & 2\\ 8 & -1 \end{array} \right].$$