Group_____ Scribe_____

Other group members_____

Group Quiz for Section 3.6

Show that $\mathbf{A} = \begin{bmatrix} 1 & 0 \\ 0 & 2 \end{bmatrix}$ and $\mathbf{A} = \begin{bmatrix} 1 & 0 \\ 0 & 3 \end{bmatrix}$ are not similar.

Hint: you could use brute force, but thinking about the eigenvalues is a lot faster (be sure to justify your reasoning well!).