Name: _____   ID #:_____

Fill in all the gaps. Show your work.

Q1) Is $A = \begin{pmatrix} 1 & 0 \\ 2 & 2 \end{pmatrix}$ invertible? If it is compute $A^{-1} = \begin{pmatrix} & \\ & \end{pmatrix}$.

Q2) Is the matrix $\begin{pmatrix} 1 & 0 & 0 \\ 1 & 1 & 3 \\ 3 & 0 & 2 \end{pmatrix}$ invertible? If it is compute

$A^{-1} = \begin{pmatrix} & & \\ & & \\ & & \end{pmatrix}$.