Math 127 Precalculus   NAME:

DoThis10.4

Due April 26, 2000 at the beginning of class.

Recall A is the matrix $\begin{bmatrix} 4 & 6 \\ 1 & 3 \end{bmatrix}$.

Demonstrate that A^{-1} is indeed $\begin{bmatrix} \frac{1}{2} & -1 \\ -\frac{1}{6} & \frac{2}{3} \end{bmatrix}$ by showing that $A * \begin{bmatrix} \frac{1}{2} & -1 \\ -\frac{1}{6} & \frac{2}{3} \end{bmatrix} = I$ and that

$\begin{bmatrix} \frac{1}{2} & -1 \\ -\frac{1}{6} & \frac{2}{3} \end{bmatrix} * A = I$. Show work for the intermediate steps of the multiplication.