

MATH 335 Quiz 3

Name: _____

Show all work. 5 points each.

1. Let $A = \begin{bmatrix} 1 & 2 \\ 5 & 12 \end{bmatrix}$. Find A^{-1} and use it to solve $A\mathbf{x} = \begin{bmatrix} -1 \\ 3 \end{bmatrix}$

2. Let $A = \begin{bmatrix} 2 & 3 \\ -1 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 9 \\ -3 & k \end{bmatrix}$. What values of k will make $AB = BA$?