

Name:

Quiz 3

16 June 2006

If a box is provided, write your answer in the box. Do not use books, calculators, or any other outside help—just you and the quiz. Do the quiz in one sitting.

Useful information: The normal equations are $A^T A \mathbf{x} = A^T \mathbf{b}$.

1. Suppose I have a linear system of equations $A \mathbf{x} = \mathbf{b}$ that is inconsistent. What does the least squares method do for me?

2. Use the least squares method to find the line that is closest to the four data points $(0,1)$, $(1,3)$, $(2,4)$, and $(3,4)$.

$y =$