

Name _____

Mathematics 206a: Multivariable Calculus
Winter Semester 2009

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Quiz #2

January 20

If $\mathbf{a} = \mathbf{i} + \mathbf{j}$ and $\mathbf{b} = \mathbf{i} - \mathbf{k}$:

A. Calculate the cross product $\mathbf{a} \times \mathbf{b}$.

B. Give the equation of the plane through the point $(1, 2, 3)$ with normal vector \mathbf{a} .

C. Give an equation (in any form you like) of the line through the point $(1, 2, 3)$ with direction vector \mathbf{a} .