

MAC 3313 Cal3 **Quiz 2d** 18 Jan 1996 Name: _____

Show **ALL** work for credit; be neat; and use only **ONE** side of each page of paper.

1. Find the scalar and vector projections of $\mathbf{b} = \mathbf{i} + 6\mathbf{j} - 2\mathbf{k}$ onto $\mathbf{a} = 2\mathbf{i} - 3\mathbf{j} + \mathbf{k}$.

2. Find two unit vectors orthogonal to both $\mathbf{i} + \mathbf{j}$ and $\mathbf{i} - \mathbf{j} + \mathbf{k}$