Linear Algebra	Quiz for Section 4.4	October 26, 2006
Name:	R. Hammack	Score:

Directions: Please answer all questions in the space provided.

- Use of calculators or any form of electronic communication device is strictly forbidden on this quiz.
 - 1. Suppose $\mathbf{u}, \mathbf{v}, \mathbf{w}$ are three vectors in a vector space V. Without knowing any further information, is it possible to say whether or not the set $\{\mathbf{v} \mathbf{u}, \mathbf{w} \mathbf{v}, \mathbf{u} \mathbf{w}\}$ is linearly independent or dependent?

2. Does the set $S = \{1 + x, x + x^2, x^2 + x^3, 1 + x^3\}$ span P_3 ?