山容 Quiz: Sections 4.4 \& 4.5

Name: $\qquad$

Linear Algebra MATH 310
R. Hammack

Score: $\qquad$

Directions: Please answer in the space provided. No calculators. Please put all phones, etc., away.

1. Suppose $S=\left\{1+2 x, 1+x+x^{2}+x^{3}, 1-2 x+x^{3}, \quad x+2 x^{2}\right\}$. Is $S$ a basis for $P_{3}$ ? Why or why not?
