Attendance Quiz for Lecture 24 (Review Session)

NAME: (print!) _____ **Section:** _____

E-MAIL ADDRESS: (print!) _____

1. Complete the following sentences

a: A vector $\mathbf{u}$ in R^n is a **linear combination** of the set $\mathcal{S} = \{\mathbf{u_1} \ , \ \ldots \ , \ \mathbf{u_k}\}$ if $\ldots$

b: A set of vectors $\mathcal{S} = \{\mathbf{u_1} \ , \ \ldots \ , \ \mathbf{u_k}\}$ is **linearly independent** if $\ldots$

c: A set of vectors $\mathcal{S} = \{\mathbf{u_1} \ , \ \ldots \ , \ \mathbf{u_k}\}$ is a **generating set** for a subspace V of R^n if $\ldots$

d: A set of vectors $\mathcal{S} = \{\mathbf{u_1} \ , \ \ldots \ , \ \mathbf{u_k}\}$ is a **basis** for a subspace V of R^n if $\ldots$

e: An **eigenvalue** of a square $(n \times n)$ matrix A, is a number t such that $\ldots$

f: An **eigenvector** of a square $(n \times n)$ matrix A is a vector $\mathbf{x}$ in R^n such that $\ldots$

g: A **pivot entry** in the row-echelon (or reduced-row-echelon) form of matrix is an entry that is $\ldots$

h: An **elementary row operation** is one of the following operations involving either one or two rows of a matrix: $\ldots$