

Name _____

Mathematics 205: Linear Algebra
Fall Semester 2004
David Haines
Quiz #22
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TRUE OR FALSE? (Don't guess! The number of incorrect responses will be subtracted from the number of correct ones. Thus, random guessing earns you no points at all.)

_____ The null space of the matrix A is the solution set of the equation $A\mathbf{x} = \mathbf{0}$.

_____ The null space of an $m \times n$ matrix is in \mathfrak{R}^m .

_____ The kernel of a linear transformation is a vector space.

_____ If A is a matrix, $\text{Col } A$ is the set of all vectors that can be written as $A\mathbf{x}$ for some \mathbf{x} .

_____ The range of a linear transformation is a vector space.