	Math 31 Harold P. boas@tam	<b>1-102</b> Boas u.edu		About the exam   The first examination is tomorrow, Thursday, June 9.   Please bring paper (or a bluebook) to the exam.   The exam covers everything on the syllabus to date.   There are 10 questions on the exam.   The types of questions include calculation, application, and
Math 311-102		June 8, 2005: silde #1	Math 311-102	interpretation. June 8, 2005: slide #2
	Examples of calculation with vectors: le projection. Calculation with matrices: matrices, inverse matrices, equations.	ength, dot product, cross product, sums and products, reduced , determinants, solving a system of		Examples of application With vectors: angles, work, area of a parallelogram (or of a triangle), volume of a parallelepiped, equations of lines and planes, intersections of lines and planes. With matrices: writing a vector as a linear combination of other vectors, testing linear independence of vectors, solving a system by Cramer's rule.
Math 311-102		June 8, 2006: slide #3	Math 311-102	June 8, 2005: slide #4

	Examples of interpretation
	Is a certain set a vector space? Is a certain subset a subspace?
	Is a certain function linear? one-to-one? invertible?
	Does a system of equations have a unique solution? infinitely many solutions? no solutions?
	What does a certain linear transformation represent geometrically?
Math 311-102	June 8, 2005: silde #5