The Rank of a Matrix

MATH 204: Linear Algebra Prepare for class November		Name (Print):
After reading Section 4.6, w	vork through the following idea	às.
1. What is the row space of	an $m \times n$ matrix A ?	
2. Fill in the blanks: Eac	h row has entries, so _	is a subspace of
We	can also write in	place of
3 (a) State Theorem 4.13:	Row Equivalent Matrices and	Their Row Spaces
5. (a) State Theorem 4.15.	now Equivalent Matrices and	Then 100w Spaces.
		oing the following row operation: Replace row 2 of ear combination of the rows of A ? Why or why
(c) Take a look at the pr	roof of Theorem 4.13. Why is	Row B contained in Row A ?

4.	What is the definition of rank?
5.	Try Exercise 1 on page 238.
6.	What is the warning on top of page 235? Be careful!!!
7.	State the Rank Theorem (Theorem 4.14).
8	Write down any questions you have on the reading.
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