Coordinate Systems

MATH 204: Linear Algebra Prepare for class November 14, 2018	Name (Print):
After reading Section 4.4, work through the following i	deas.
1. State Theorem 4.7: The Unique Representation The	eorem.
2. Theorem 4.7 is an existence AND uniqueness theo prove uniqueness we can assume there are two (in this of they must be the same. Sketch the proof of this theorem!	orem. The existence is pretty direct here. Recall to ease, sets of scalars with a certain property) and show
3. State the definition of coordinates of \vec{x} relative to the order when we define this! Why?	e basis \mathcal{B} . Note that the vectors of the basis have an

2	4. Try Exercise 1 in Section 4.4, page 224. (This is like Example 1 in the text.)
ļ	5. Try Exercise 5 in Section 4.4, page 224. (This is like Examples 2 and 4 in the text.)
(6. Write down any questions you have on pages 218-220 of the reading.