

Coordinate Systems Part II

MATH 204: Linear Algebra

Prepare for class November 15, 2017

Name (Print): _____

After reading Section 4.4, work through the following ideas.

1. Define the change-of-coordinates matrix. Include what you are changing from and to.
2. There are two ways to use the change-of-coordinates matrix to find the \mathcal{B} -coordinate vector of \vec{x} . What are they?
3. Try Exercises 11 in Section 4.4, page 225.

4. State Theorem 4.8.

5. What is an isomorphism?

6. Carefully read Example 5 and the paragraph afterwards. Isn't this neat?! What does this example tell you? Example 6 illustrates how these ideas can be useful!

7. Write down any questions you have on the reading.