Homework Week 9

Remember that although you may discuss this assignment with others, your write up should be your own. **Do not share your write-up, look at other's write-ups, discuss word for word how something should be proved, etc.** Be sure to note with whom you collaborate if you do collaborate. Complete these exercises on a separate paper.

Remember to distinguish clearly between vectors and scalars! You must make it clear to earn full credit!

1. Complete Section 3.1, Number 4, page 169. Read the directions carefully. They ask you to find the determinant in two ways. Make sure they match!

2. (a) Complete Section 3.2, Number 14, page 177. Read the directions carefully.

(b) Determine if the matrix in Section 3.1, Number 4 is invertible. Your justification need not be long, but it must be detailed and supported by theorems or facts.

3. Complete Section 3.2, Number 40, page 178. Show all each step and justify each step with a definition, theorem or fact!