Properties of Determinants Part II

MATH 204: Linear Algebra Prepare for class October 24, 2018	Name (Print):
After rereading Section 3.2, work through the following id	eas.
1. On page 173 in the text, the author's define a matrix \boldsymbol{U}	U. What special properties does U have?
2. State the fact on page 173 about the determinant of ${\cal A}$	in relation to U .
3. Theorem 3.4 generalizes a result we already knew about we discussed this last week!)	at 2×2 matrices. State Theorem 3.4 here. (Yes

4. The comment after Theorem 3.4 highlights the fact that a consequence of Theorem 3.4 is that we no have thirteen items that are logically equivalent for the Invertible Matrix Theorem! Carefully work throug Example 3 in the text (page 173), justifying each step with Theorems from this chapter or with the extende Invertible Matrix Theorem. Write each step down carefully. The paragraph before Example 3 should give you guidance.	h ed
5. (a) State Theorem 3.5.	
(b) Prove that Theorem 3.5 is true for the 2×2 matrix case.	
6. Write down any questions you have on the reading.	