Study for the Oct 26 quiz:

Prepare to prove theorem 1 or theorem 2: Read the proofs online and consider these questions:

- Is this a direct proof or a proof by contradiction? If it is a proof by contradiction what is the key supposition?
- What is the step where the options are listed, and everything is named so the proof can continue.
- What axiom is used for writing down the equation that helps prove the theorem?
- What step lets you say the theorem has been proven?

Prepare to prove theorem 3: Read the proof online and consider these questions:

- Is this a direct proof or a proof by contradiction? If it is a proof by contradiction what is the key supposition?
- Which axiom or definition is most important for the proof?
- What is the key statement that lets you apply that axiom or definition?
- What step lets you say the theorem has been proven?

Prepare to prove theorem 4: Read the proof online and consider these questions:

- Is this a direct proof or a proof by contradiction? If it is a proof by contradiction what is the key supposition?
- What is the step where the options are listed, and everything is named so the proof can continue.
- What axioms or definitions are used for writing down the equations that help prove the theorem?
- What step lets you say the theorem has been proven?

Prepare to prove theorem 5: Read the proof online and consider these questions:

- Is this a direct proof or a proof by contradiction? If it is a proof by contradiction what is the key supposition?
- What is the step where the options are listed, and everything is named so the proof can continue.
- What axioms or definitions are used for writing down the equations that help prove the theorem?
- What step lets you say the theorem has been proven?