**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Video: Introduction to Proofs**

1. What is the three step approach to problem solving?
2. What is a proof?
3. What does it mean to say that a definition is reversible?
4. What is another word for an axiom? What is an axiom?
5. Why is the Pythagorean Theorem particularly interesting?
6. What is a lemma?
7. What is a corollary?
8. What is a conjecture?
9. What is Goldbach’s Conjecture?
10. What is Fermat’s Conjecture?
11. Who proved Fermat’s Conjecture? When did he do so?
12. What is a trivial solution?
13. What is Playfair’s Axiom?
14. What was David Hilbert’s goal or intention?