## ECE335 Summer 2019 - Lecture 10 Examples

**Example 1:** Prove that if 0 < a < b, then  $a^2 < b^2$ . Hint: First show that (b + a) > 0 and (b - a) > 0.

**Example 2:** Suppose  $A \setminus B \subseteq C \cap D$  and  $x \in A$ . Prove that if  $x \notin D$ , then  $x \in B$ . Hint: Use Conditional Proof Template.