1. Are all infinite languages uncomputable? Justify your answer.
2. Suppose that *A* and *B* are languages. What is the definition of a Turing reduction from *A* to *B*?
3. Define } and . Give a Turing reduction from to .
4. Define and . Give a Turing reduction from to .
5. Suppose that and are languages over alphabet where is computable and . Is it necessarily true that $A$ is computable? Justify your answer.

Think this out. Don’t guess. Suppose that What are the subsets of ?