Practice Quiz 3

1. *(See Exercise 7.4)* Suppose $F$ and $G$ are general computational problems and $D$ is a decision problem. Also suppose $F$ reduces to $G$ and $D$ reduces to $G$. What, if anything, can we conclude if:
   - $D$ is undecidable?
   - $G$ is computable?
   - $F$ is computable?

2. What is Rice’s Theorem?

3. Argue (using Turing reductions) that the following problem is undecidable.

4. Argue (using Rice’s Theorem) that the following problem is undecidable.