Show that . . .

1. the mapping reducible relation $\leq_m$ is transitive.
2. if $A$ is Turing-recognizable and $A \leq_m \overline{A}$, then $A$ is decidable.
3. if a binary language $A$ is TR-complete, then $\overline{A}$ is co-TR-complete.
4. a co-TR-complete binary language $A$ is not Turing-recognizable.
5. the Kolmogorov complexity function $K(x)$ is not computable.
6. the set of incompressible strings is undecidable.