

Quiz 3

Try to get each questions fully right — likely no partial credit will be given.

1. Define what it means for a language L to be **recursively enumerable** (aka, Turing acceptable).
2. Clearly state the **Church-Turing thesis**.
3. The Turing-decidable languages are closed under complement. True False
4. Any Turing-acceptable language is Turing-decidable. True False
5. If M is a TM and $L = L(M)$ and there is some input x such that M , on input x , eventually visits a configuration C more than once, then M does not decide L . True False
6. If M is a TM and $L = L(M)$ and there is some input x such that M , on input x , eventually visits a configuration C more than once, then L is not decidable. True False
7. Turing machine can accept infinite languages by virtue of having an infinite number of states. True False
8. Deterministic and probabilistic Turing Machines accept the same class of languages. True False