

Quiz 3

Problem 1. True or False, with a convincing justification: The intersection of any two context-free languages is context-free.

Problem 2. Write a sentence or two to explain the **meaning** of the following claim: *It is unimportant if we do or do not insist that, for a PDA to accept an input x , the stack must be empty.* Don't prove this statement, just say more formally what (mathematically-precise) meaning is likely to be intended.

Problem 3. Carefully define what it means for a language L to be *recursively enumerable*.