Homework #4

1. 1. By slide P.516, the expected running time of ZPP for the correct answer to emerge is polynomial. Therefore, CIRCUIT-SAT belongs to ZPP **because we have *A* to solve the problem**. We know that CIRCUIT-SAT belongs to NP-COMPLETE. In another hands, the fact , this imply a result because . We get the conclusion that .
2. 1. By slide P.539, there are some undecidable languages that have polynomial circuits, so those languages won’t belongs to PSAPCE. Therefore, the argument all languages that have polynomial circuits be in PSPACE is not correct.