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Our recitation group (Lab 22-5) consisting of ---, ---, ---, and---, got together on 10/3/19 at 1:30 pm in Engineering 1. We spent an hour and a half discussing the first exam and going over the solutions together and explaining/examining questions that we had trouble with. During this time, we also worked on practice problems similar to those in the upcoming homework assignment. Some base conversion problems as well as modular and divisibility rule proofs were practiced, and a few different methods of reasoning these proofs out were discussed.

**Meeting Schedule:**

0-30 min: Exam 1 review of Questions 4, 5, 6 since these were the ones most had trouble with

31-45 min: Base conversion problems, thought up at the time since any would suffice. Went through two different methods for this, one involving doing repeated division the other involving finding all base raised to an exponent less than the number try to convert to. Settled on repeated division as it was found easier for most members.

45-90 min: Proofs regarding divisibility and mod rules

One of the problems shown for this was:

Prove that if  $n$  is an odd integer, then  $8 \mid (n^2 - 1)$

Which involved a sub proof of the form:

That for any integer  $a$ ,  $a(a+1)$  is an even integer.

The sub proof was left out of the problem description in order to see if anyone would figure out that it was needed on their own which one member did realize and attempt.