

Instructions. Prove by using the definitions of even and odd integer.

- (1) Each group is to prove **1** of the below four lemmas. Your group's lemma is on the back.
- (2) Turn in one proof of your group's lemma.
- (3) Each group member should write their PIN and Name in the box provided below.
- (4) Please use 0.7 lead pencil (I have some extras) and leave enough space for comments.
- (5) If you need more lined solution paper, just ask Prof. Girardi.

- 1. **Lemma SEE.** The sum of two even integers is an even integer.
  - 2. **Lemma SEO.** The sum of an even integer and an odd integer is an odd integer.
  - 3. **Lemma SOO.** The sum of two odd integers is an even integer.
  - 4. **Lemma PEA.** The product of an even integer and any integer is an even integer.
- .....

**Each Group Member's PIN and Name.**

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Below space is for your Thinking Land.