Prof. Girardi

§1.2 Group Work

(, D)

Jan 3

1.

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

Direct

(1) On a separate sheet of paper, write the statement of your group's Lemma and your group's proof.

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Review/

(2) Turn in one paper per group.

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- (3) Each group member should put their name (and Pin) on the BACK of the paper.
- (4) Please use 0.7 lead pencil (I hae some extras) and leave enough space for comments.
- 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.

Below space is for your Thinking Land.

Outline for a proof of a conditional statement: hypothesis \Rightarrow conclusion i.e. $P \Rightarrow Q$.

From Ch3 handout, last page, $(\forall x \in U) [P(x) \Rightarrow Q(x)]$

- ▶. Direct proof
- TL. Let $x \in U$.
 - Let P(x) hold/be-true.

We shall show Q(x) holds/is-true (Start arguing that Q(x) holds.)

 $\S{3.1}$