

**HW#5 Internal Combustion Engines**

1) What are the major factors affecting combustion stability in an SI engine?

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

2) Ignition is difficult in SI engines running very lean. What techniques can be used to improve the ignition stability of lean-burn engines?

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

3) Why are Diesels more efficient than SI engines? Give at least 4 good reasons.

4) Why do Diesels usually have lower power densities than SI engines?