

Name: \_\_\_\_\_

PID: \_\_\_\_\_

Section: \_\_\_\_\_

**Instructions.** Grading is based on method. SHOW ALL WORK.

Submit solutions at the beginning of class on Monday or email to [hensh@msu.edu](mailto:hensh@msu.edu) by 9:00AM on Monday. If you must email, please use the subject line: **Math 482 - Quiz 6**

1. (10 points) Consider the poset  $D_{24}$  and answer the questions below.

(a) Sketch the Hasse diagram for  $D_{24}$ .

(b) List all maximal chains.

2. (10 points) Consider the poset  $D_{108}$  and answer the questions below.

(a) List a maximal chain.

(b) List a maximal antichain.