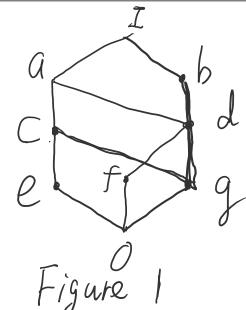
## **Homework 4**

- Textbook p272: 24, 34
- ●Textbook p278-279: 1-10(判断即可), 12, 20
- ■1. Show that in a lattice if  $a \le b \le c$ , then

(1) 
$$a \lor b = b \land c$$

$$(2) (a \wedge b) \vee (b \wedge c) = b = (a \vee b) \wedge (a \vee c)$$



- •2. A bounded lattice is shown in Figure 1, answer the following questions.
- (1) Find the complements of a and f.
- (2) Is the lattice a complemented lattice? Why?
- ●3. Show that in a bounded lattice, the only complement of 0 is 1.