

TB(3A) Ch.6 More about 3-D Figures Conventional Questions

1. [16-17 Final Exam #2]

Figure 1 shows the orthographic projection of a solid, draw the solid by using the isometric grid provided below. **(2 marks)**

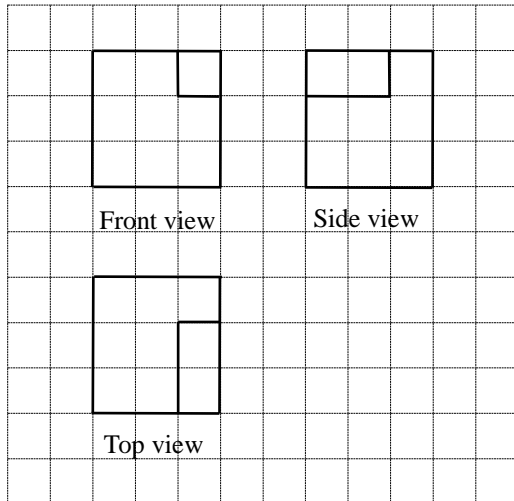
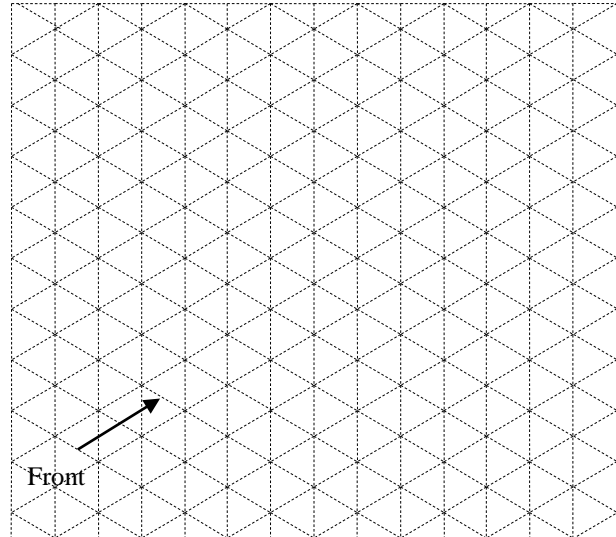


Figure 1



2. [16-17 Final Exam #3]

Figure 2 shows a right pyramid $VABCD$ with a square base $ABCD$. It is given that G is the projection of V on plane $ABCD$ and H is the mid-point of BC .

- (a) It is known that $VABCD$ has one axis of rotational symmetry. What is the order of it?

- (b) Name the angle between the line VB and the base $ABCD$.

- (c) Name the angle between the plane VBC and the base $ABCD$. **(1 mark)**

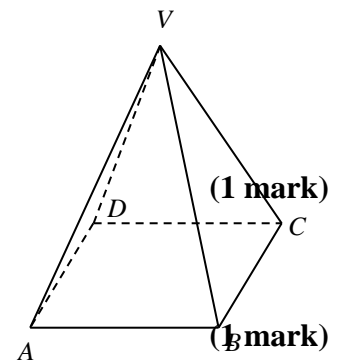


Figure 2

3. [17-18 Standardized Test 2 #1]

Figure 1 shows a cube $ABCDEFGH$.

(a) Name the angle between line EA and plane $ABCD$.
 _____ (0.5 mark)

(b) Name the angle between line EC and plane $BCHG$.
 _____ (0.5 mark)

(c) Find the order of rotational symmetry of the cube with EB as the axis of rotation.
 _____ (0.5 mark)

(d) Find $\angle AEC$.
 _____ (0.5 mark)

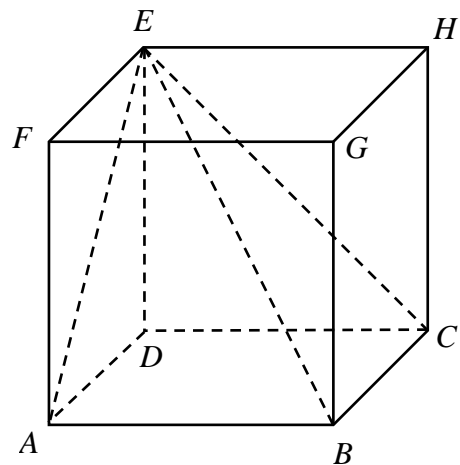
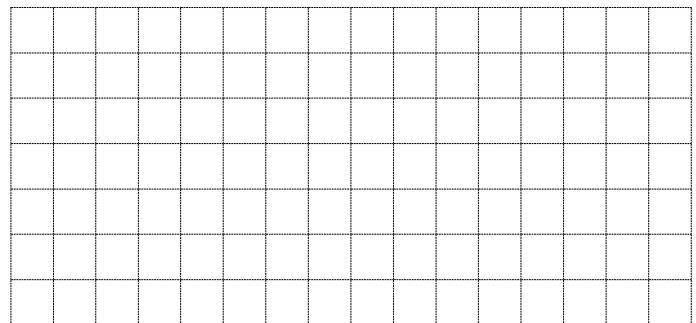
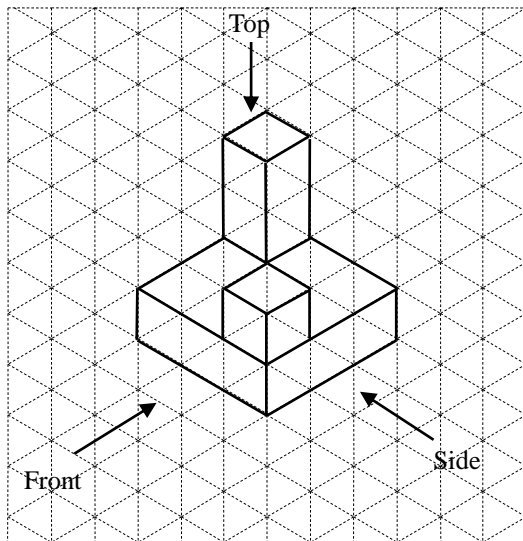


Figure 1

4. [17-18 Final Exam #3]

Assuming that there are no hidden parts in the solid shown in Figure 1, draw its orthographic views on the grid paper provided. (3 marks)



5. [18-19 Standardized Test 2 #1]

Draw the orthographic views of the solid shown in **Figure 1** on the grid paper provided.

(3 marks)

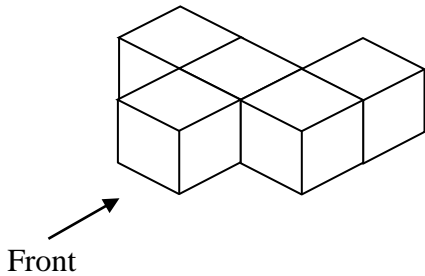
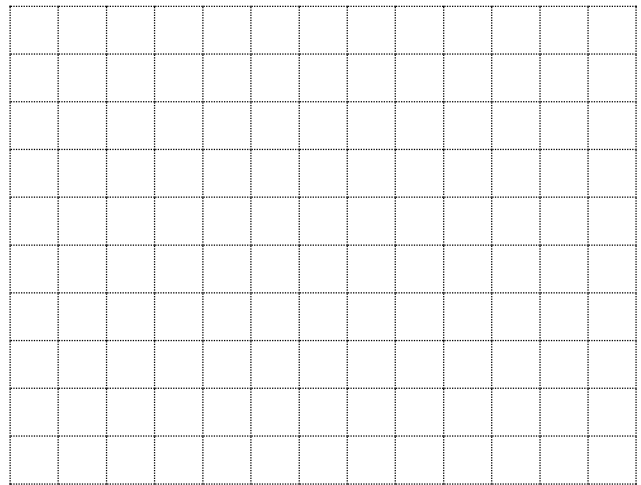


Figure 1



6. [18-19 Final Exam #3]

Draw the orthographic views of the solid shown in **Figure 1** on the grid paper provided.

(3 marks)

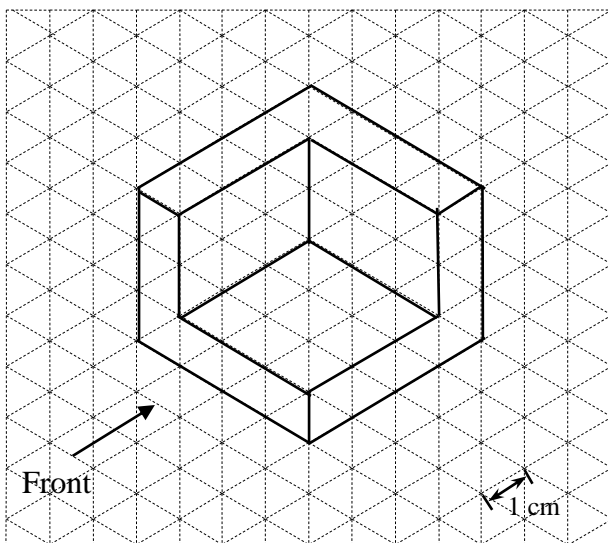
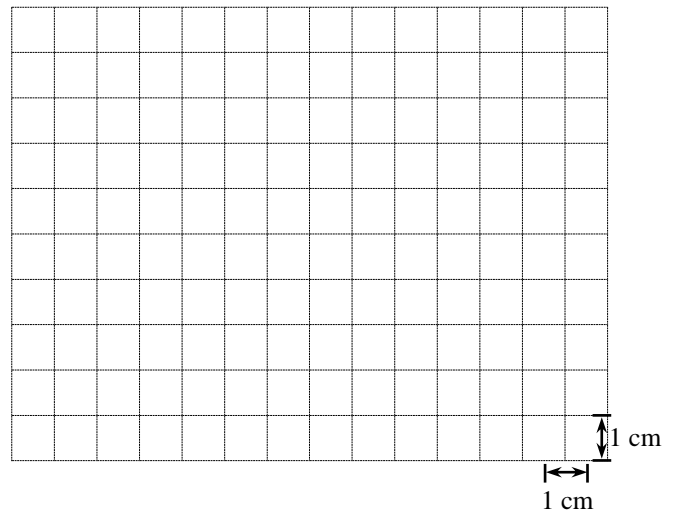


Figure 1



7. [20-21 Standardized Test #1]

Figure 1 shows the orthographic views of a solid. Draw the solid on the oblique grid provided. (2 marks)

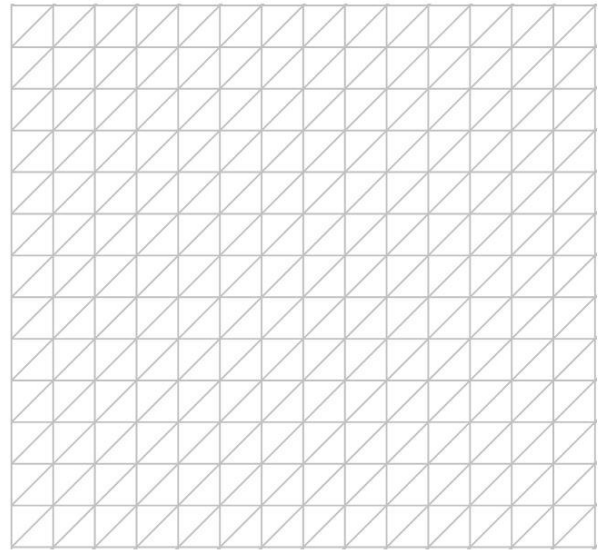
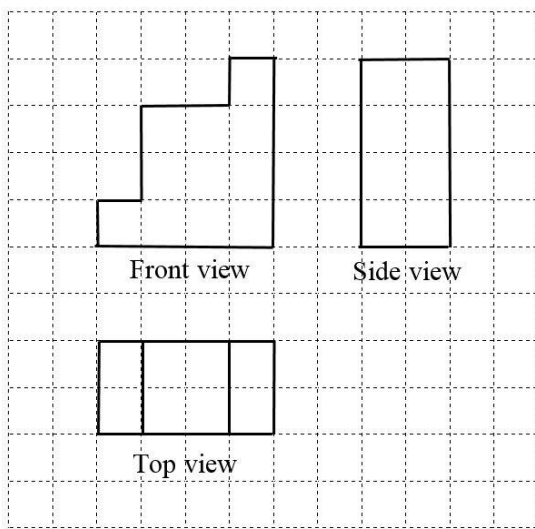


Figure 1

8. [20-21 Final Exam #3]

Draw the orthographic views of the 3-D object in Figure 1.

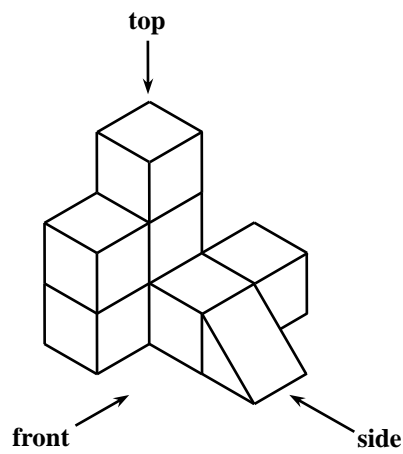
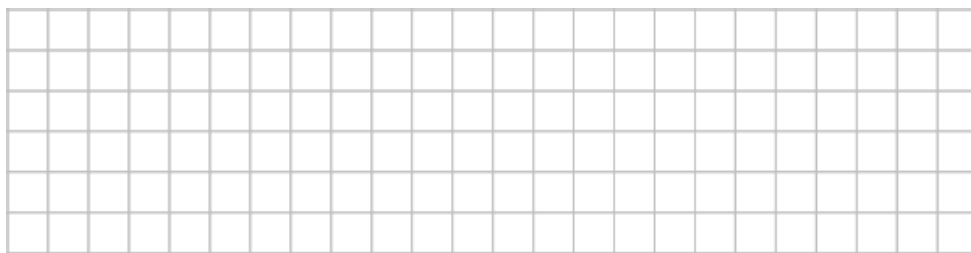


Figure 1

(Assume that there is no hidden parts in the figure.)

(3 marks)



Front View

Side View

Top View

~ End ~