

Engr 210

Homework #1

Workbook Problems:

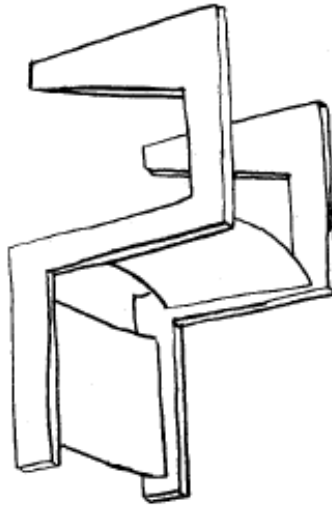
1.1 Alphabet of Lines: Identify each line type in the space provided.

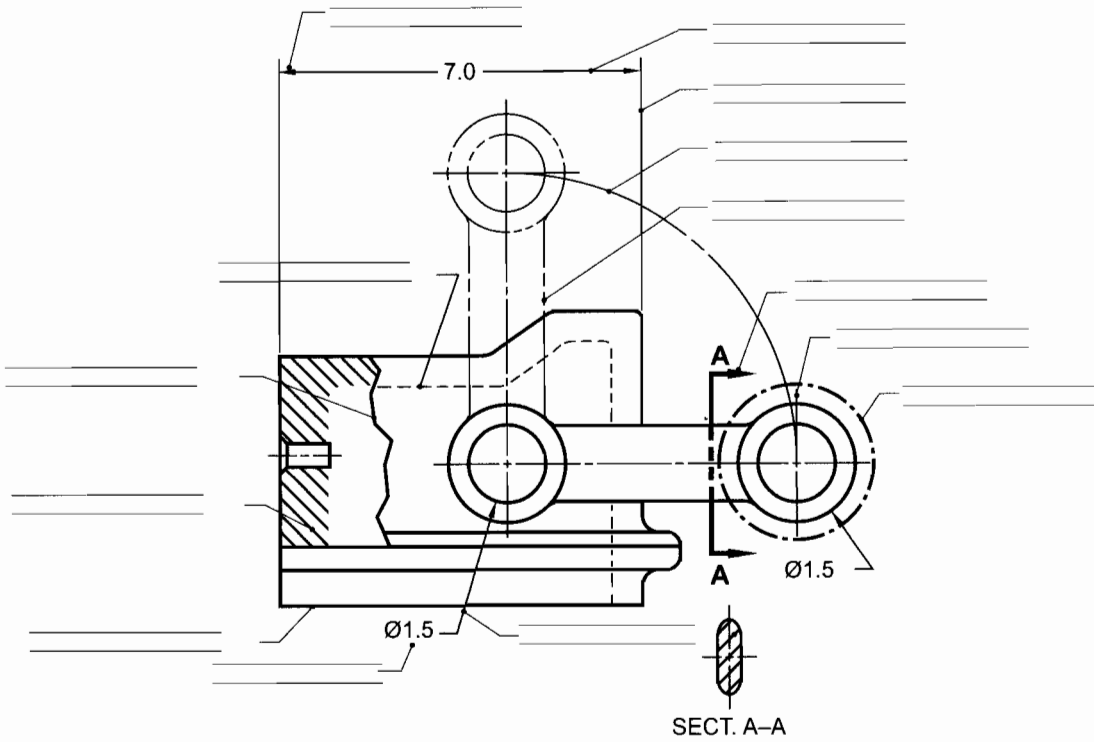
1.2 Scales: Measure the object and print the dimensions in the space provided (inches).

1.3 SI Scales: Measure the object and print the dimensions in the space provided (mm).

Sketching:

1. Make a contour sketch of AT LEAST TWO common devices, such as a telephone, automobile, computer mouse, coffee cup, a pair of pliers, a wrench, etc. Indicate an approximate scale for each sketch.
2. Use upside-down sketching to create the chair shown below:

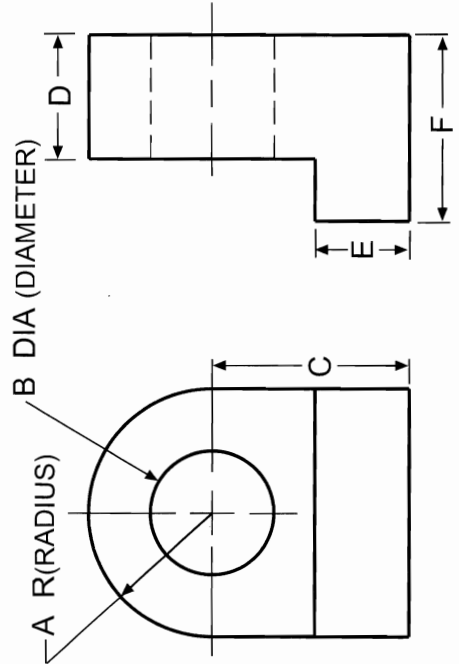




1. LAY OFF EACH DIMENSION USING A MECHANICAL ENGINEER'S SCALE. THEN DARKEN THE DIMENSION LINE, PLACE ARROWHEADS AT EACH END, AND PRINT THE NUMERICAL VALUE IN A SPACE APPROXIMATELY AT THE LINE'S CENTER.

- A. 6 3/4
- B. 2 3/4
- C. 5 1/4
- D. 3 1/4
- E. 3 1/8
- F. 2 5/8
- G. 6.50

2. MEASURE THE OBJECT BELOW AND GIVE THE DIMENSIONS IN THE SPACE PROVIDED.



- A.
- B.
- C.
- D.
- E.
- F.

1. LAY OFF THE GIVEN DIMENSIONS FULL SIZE FOR EACH LINE USING A MECHANICAL ENGINEERING SCALE. THEN MEASURE THE LENGTHS WITH A METRIC SCALE AND PRINT THE METRIC VALUE TO THE NEAREST mm IN A SPACE AT APPROXIMATELY THE LINE'S CENTER.

6" _____

1" _____

4" _____

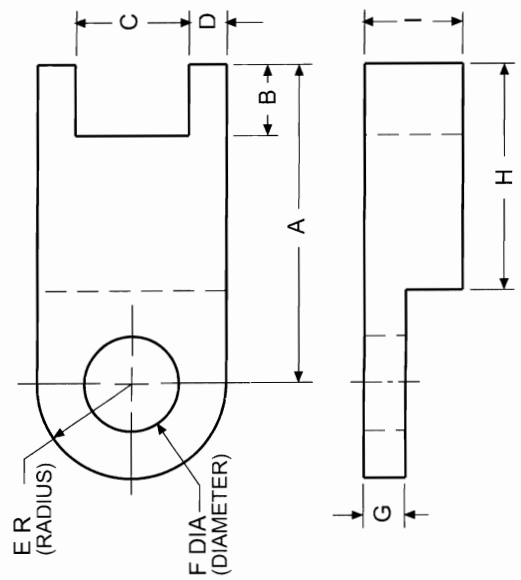
7 7/8" _____

3 15/16" _____

5 3/4" _____

3/4" _____

2. MEASURE THE OBJECT BELOW AND GIVE THE DIMENSIONS TO THE NEAREST mm.



METRIC 1:1

A B C D E

METRIC 1:1

F G H I