

EXERCISES

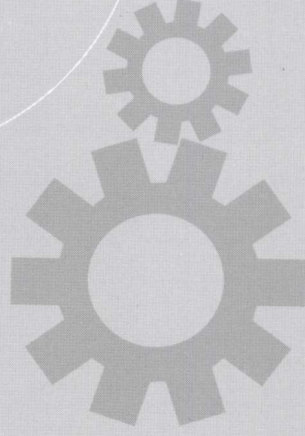
XITICE

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中等职业教育系列教材

机械制图习题册

● 主编 彭金科 王 刚



西北大学出版社

(2) 数字

1 2 3 4 5 6 7 8 9 0

Handwriting practice grid for numbers 1 through 0, showing multiple rows for tracing and independent writing.

(3) 拉丁字母

大写

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Handwriting practice grid for uppercase Latin letters A through Z, showing multiple rows for tracing and independent writing.

小写

a b c d e f g h i j k l m n o p q r s t u v w x y z

Handwriting practice grid for lowercase Latin letters a through z, showing multiple rows for tracing and independent writing.

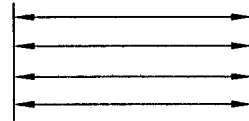
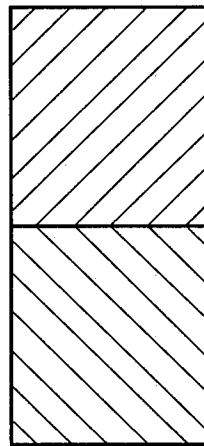
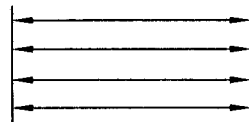
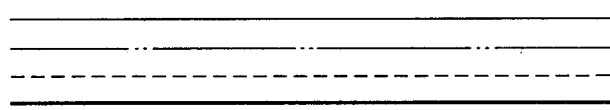
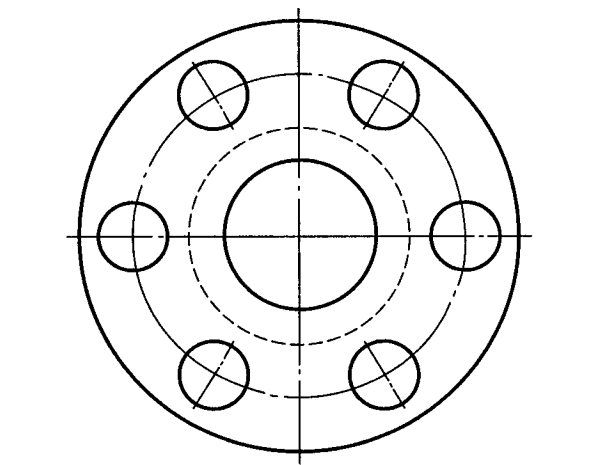
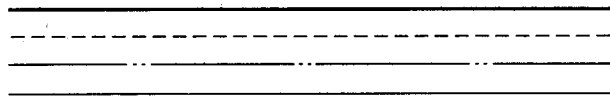
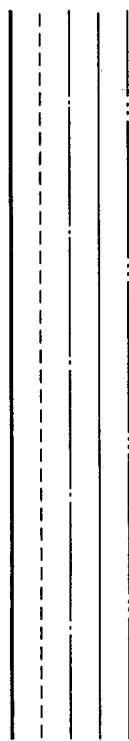
大写

Blank handwriting practice lines for uppercase letters.

小写

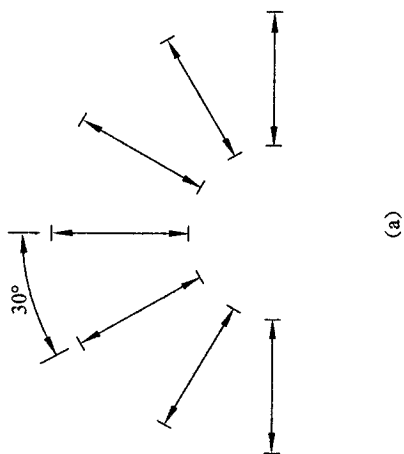
Blank handwriting practice lines for lowercase letters.

1-3 按左图的示样在右边作图线、箭头练习

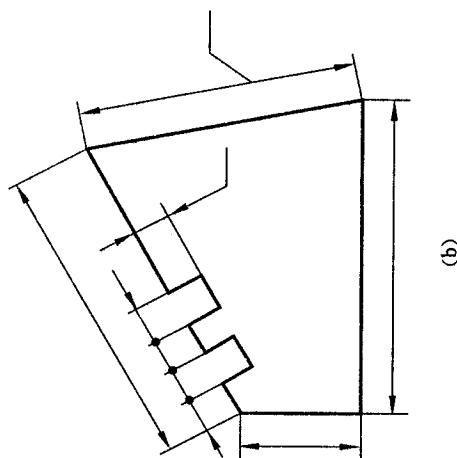


1-4 尺寸标注 (数值从图中按 1:1 量取, 取整数)

(1) 线性尺寸

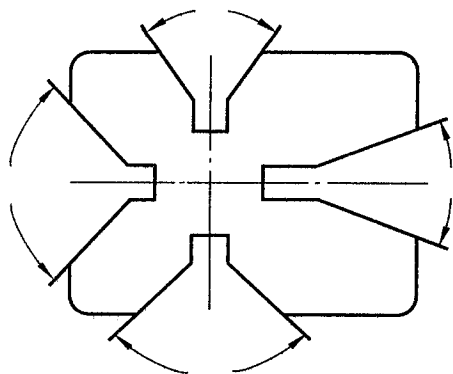


(a)

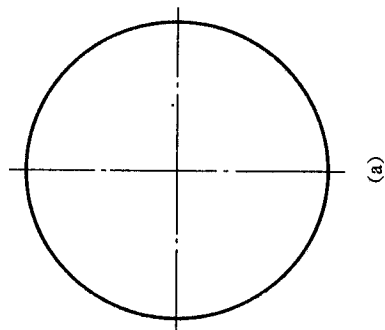


(b)

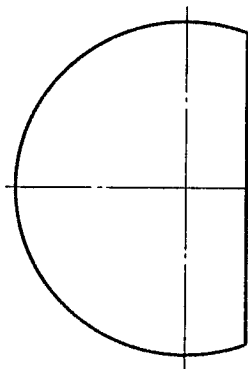
(2) 角度的数字



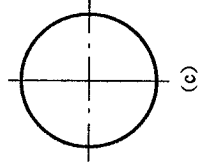
(3) 圆的直径



(a)



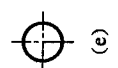
(b)



(c)

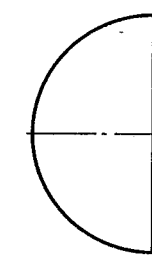


(d)

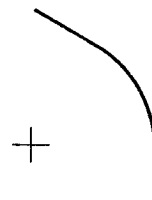


(e)

(4) 圆弧半径



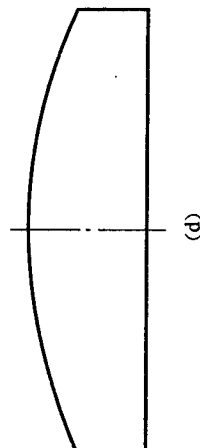
(a)



(b)



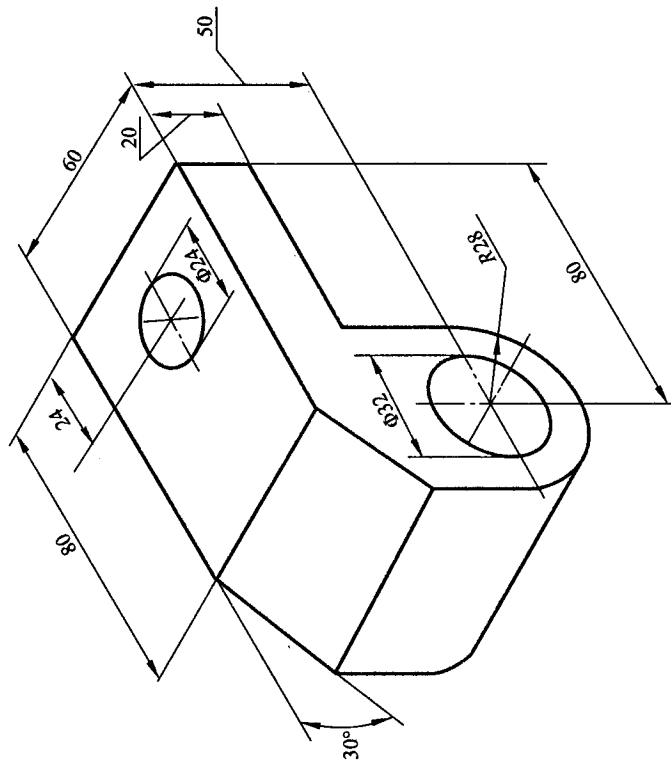
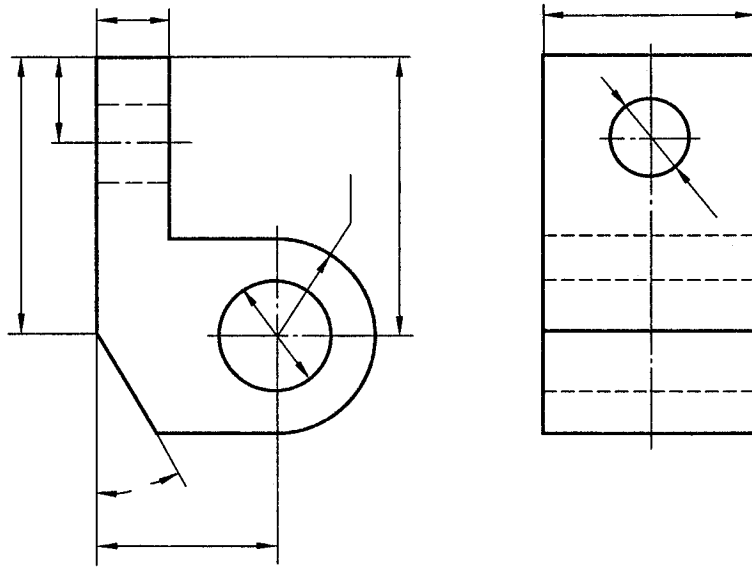
(c)



(d)

1-5 根据立体图在视图上标注尺寸，并作填充题

视图比例 1:2



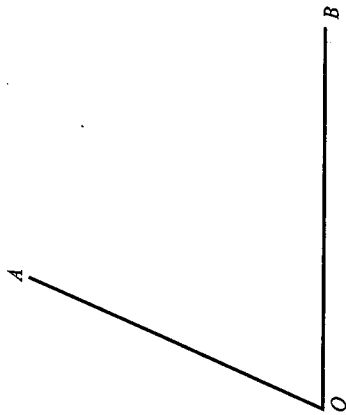
1. 视图中标注的尺寸，一般是以_____作单位。
2. 视图中标注的尺寸，(是、不是) 机件的真实大小，与比例和绘图准确度 (有关、无关)。

1-6 常用等分

(1) 用几何作图法将线段 AB 七等分。

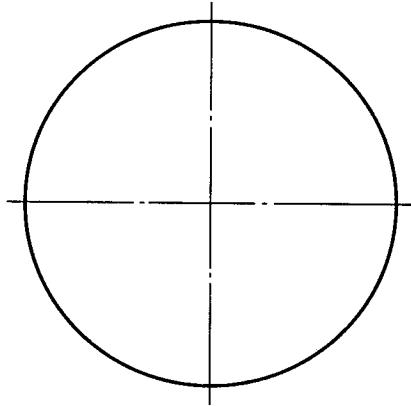


(2) 将 $\angle AOB$ 四等分。

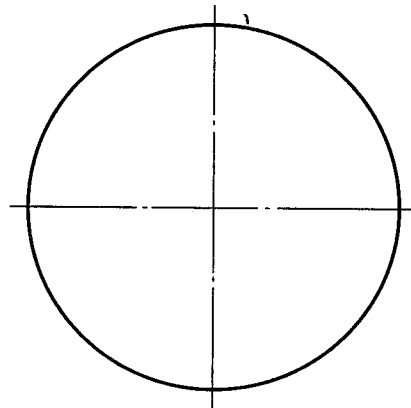


(3) 圆的等分。

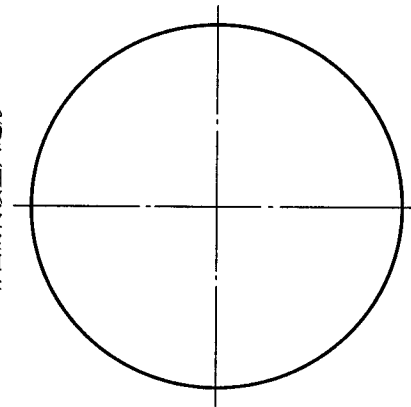
(a) 作圆的内接正三角形



(b) 作圆的内接正五角星



(c) 作圆的内接正六边形

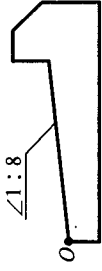


$$a = K \times D$$

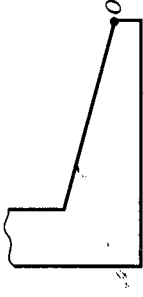
1-7 斜度、锥度

(1) 参照右上角所示图形，在下图中画全图形，并标注斜度代号。

(a)

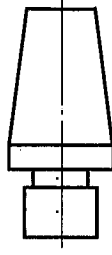


(b) 斜度 1:4

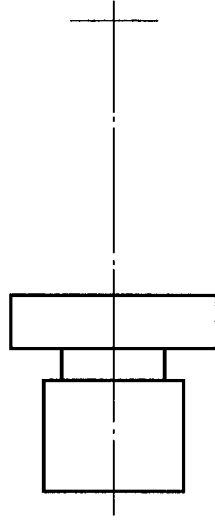
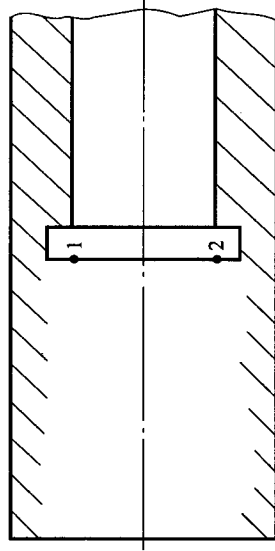
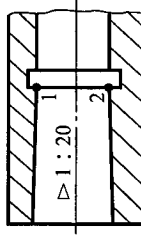


(2) 参照右上角所示图形，在下图中画全图形，并标注锥度代号。

(a) 锥度 1:4

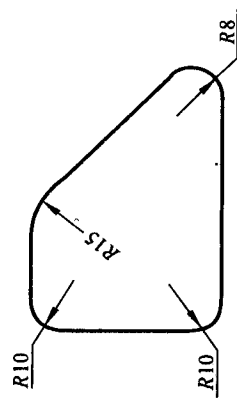


(b)

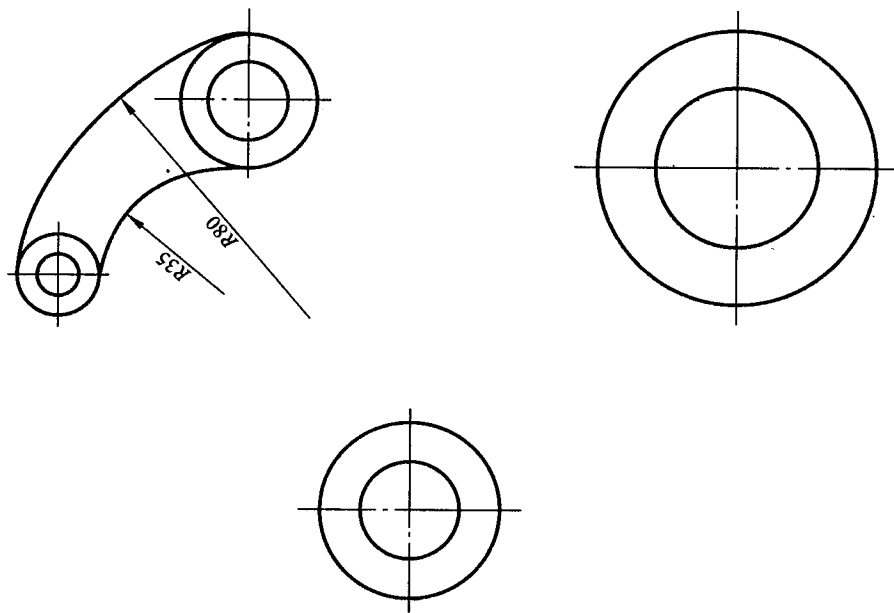


1-8 圆弧连接：按给定图形完成平面图（保留作图线）

(1)

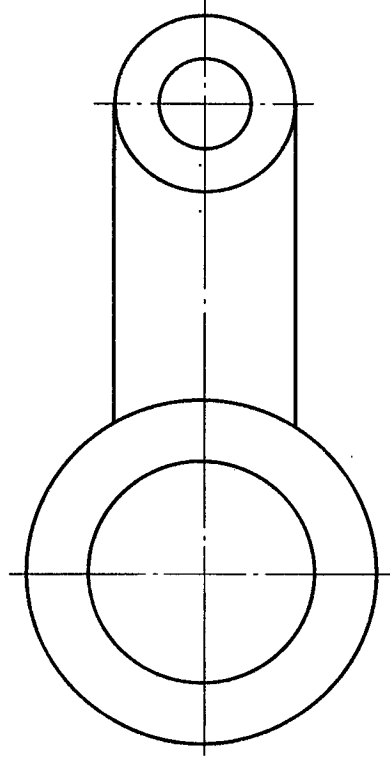
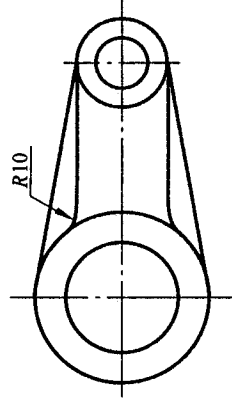


(2)



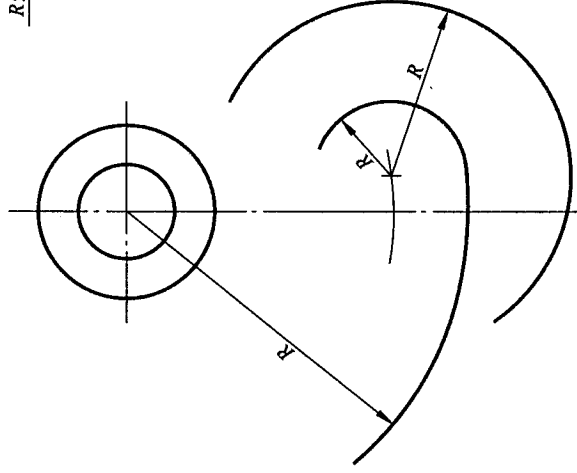
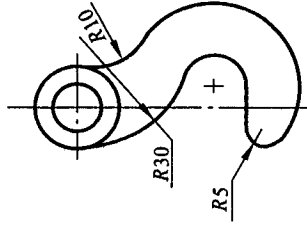
1-9 圆弧连接 (要求同前)

(1) .



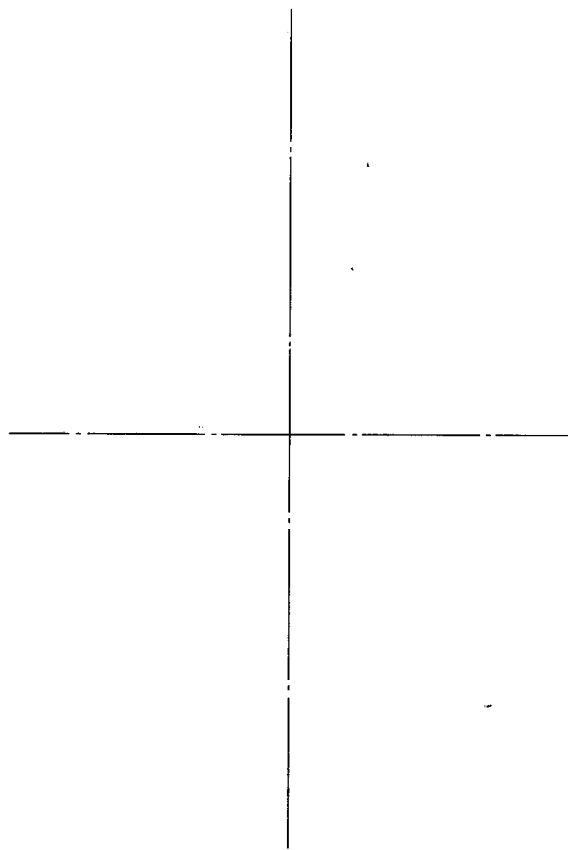
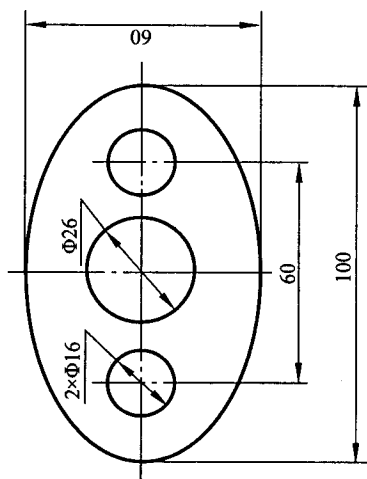
(提示: 外公切线用三角板试靠法求出切点后再画切线)

(2)



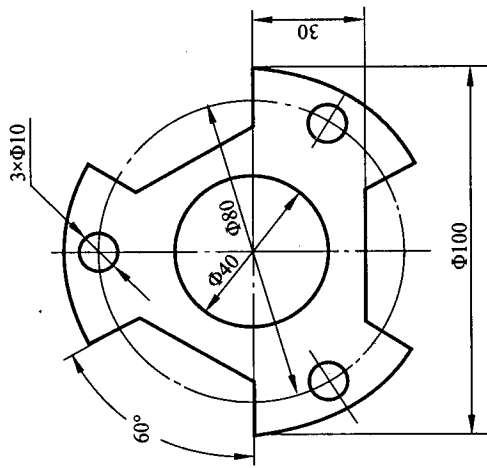
1-10 椭圆近似画法

按 1:1 比例在给定位置完成下图。

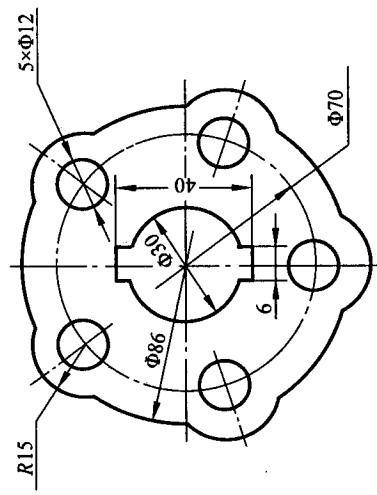


1-11 绘制平面图形

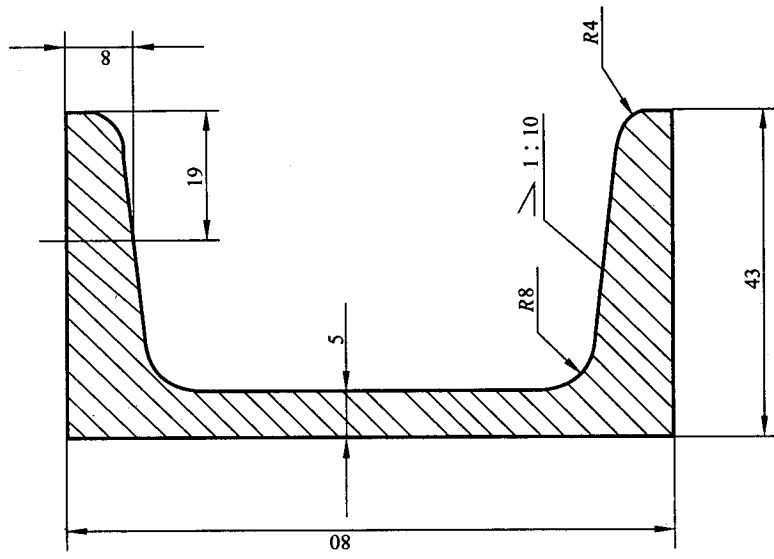
(1)



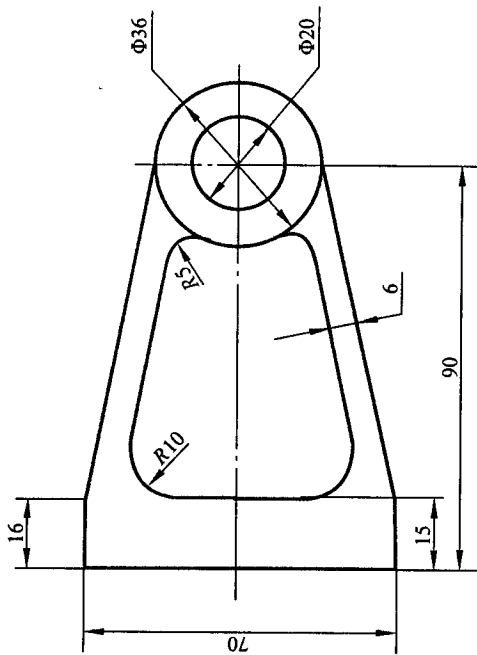
※ (2)



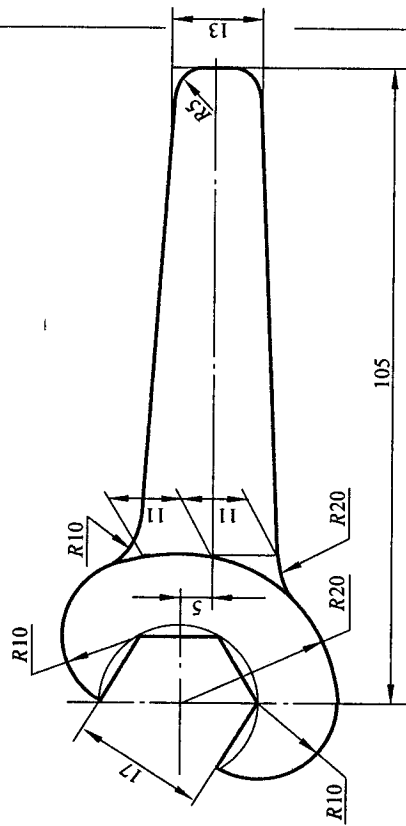
(3)



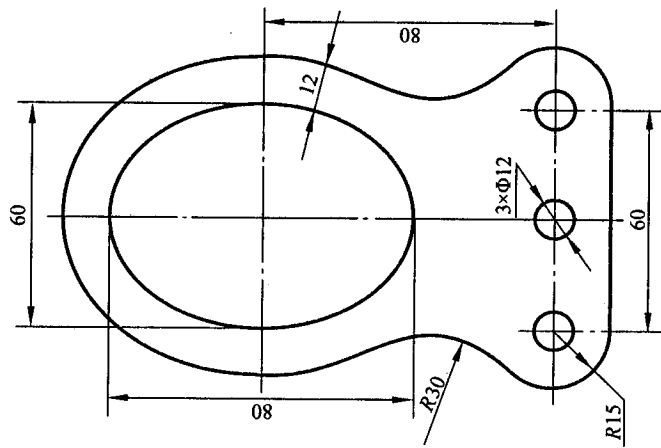
(1)



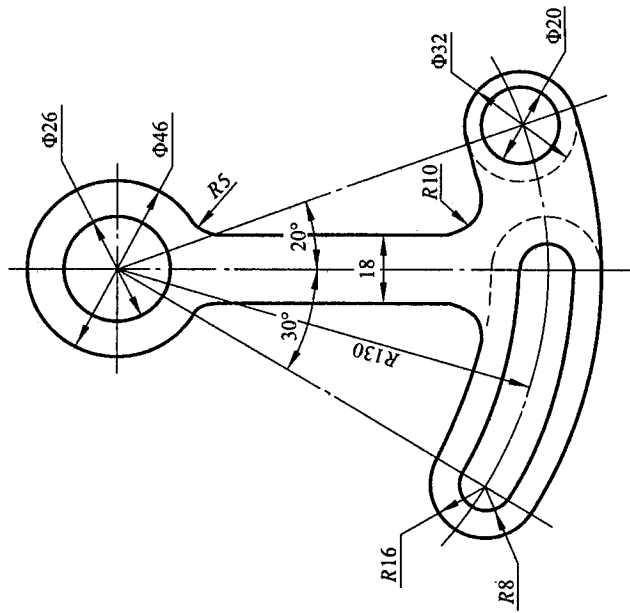
※ (2)



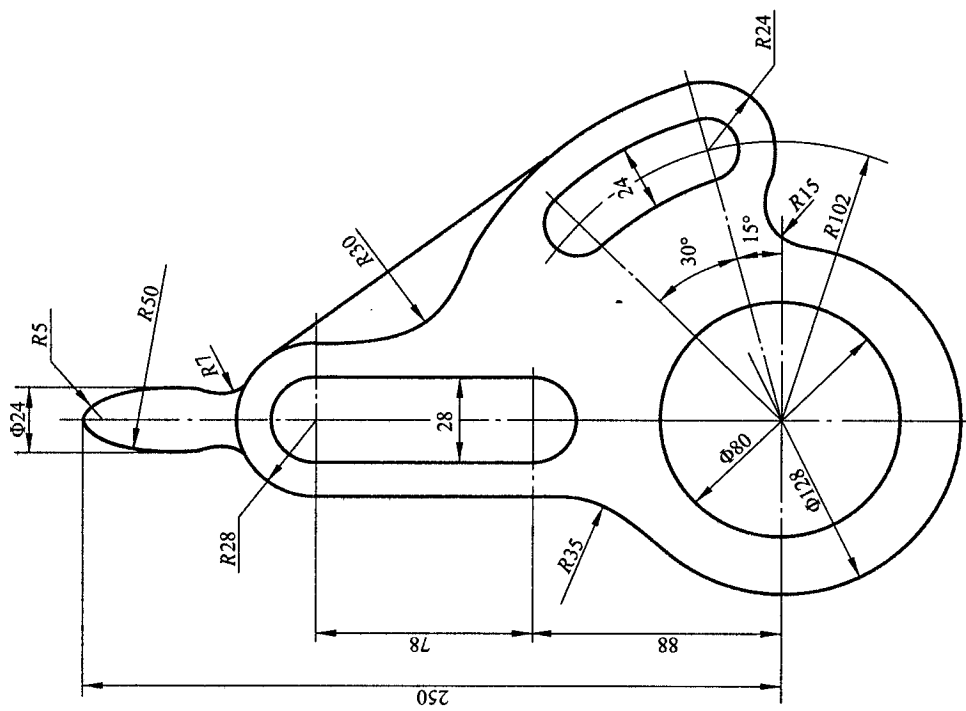
(3)



(1)

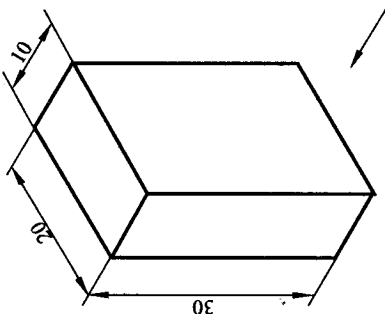
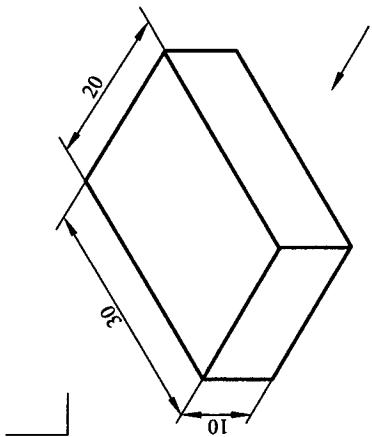
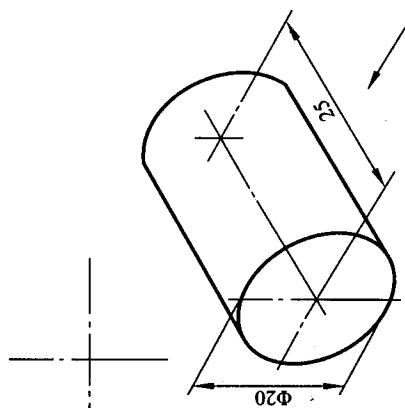
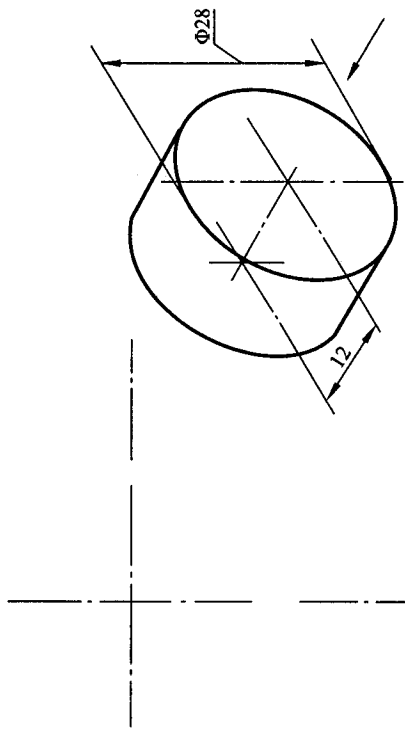


(2)



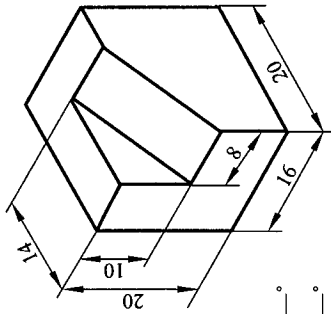
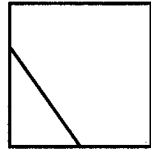
第二章 投影和视图

2-1 根据立体图按 1:1 画出基本几何体三视图 (主视图按箭头方向选取)

(1)  Isometric view of a rectangular prism with dimensions 30, 20, and 10. The front view is indicated by an arrow pointing from the right side.	(2)  Isometric view of a rectangular prism with dimensions 30, 20, and 10. The front view is indicated by an arrow pointing from the right side.
(3)  Isometric view of a cylinder with a diameter of $\Phi 20$ and a height of 25. The front view is indicated by an arrow pointing from the right side.	(4)  Isometric view of a cylinder with a diameter of $\Phi 28$ and a height of 12. The front view is indicated by an arrow pointing from the right side.

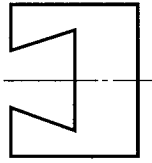
2-2 根据立体图补全三视图，并作填充题

(1)

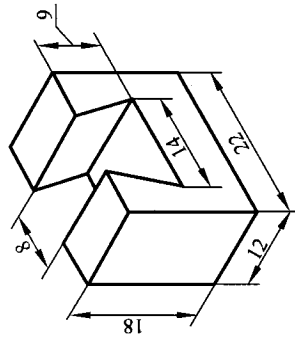


俯视图与主视图应保持_____。
俯视图与左视图应保持_____。

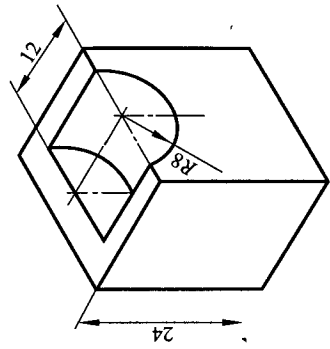
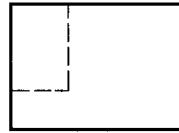
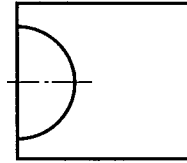
(2)



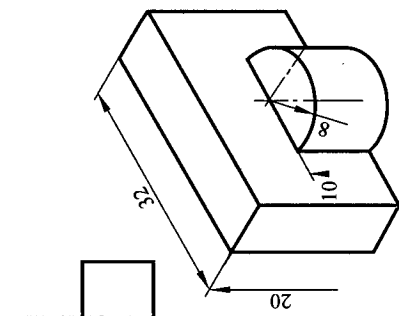
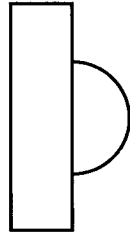
左视图与主视图应保持_____。
左视图与俯视图应保持_____。



(3)

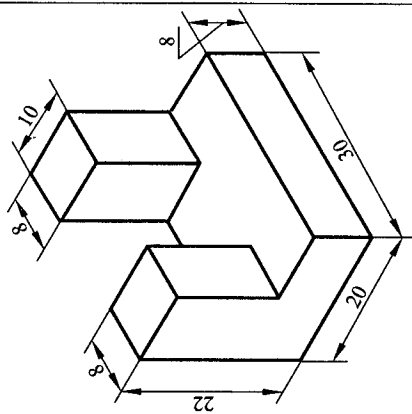
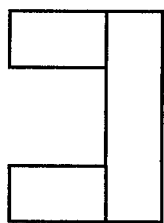


(4)

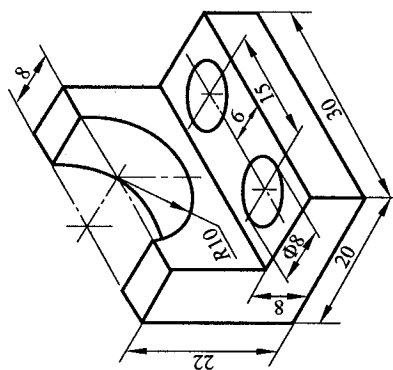
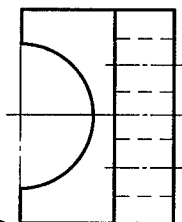


2-3 根据立体图补全三视图

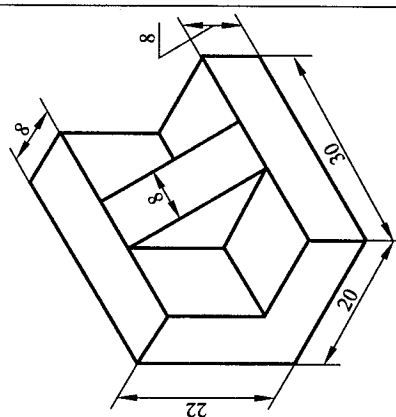
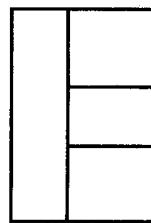
(1)



(2)



(3)



(4)

