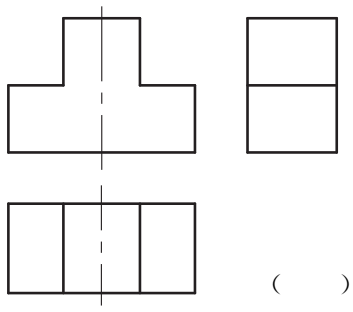
第二章　投 影 基 础

2－1　对照立体图看懂三视图，并在括号内填上相应的立体图的编号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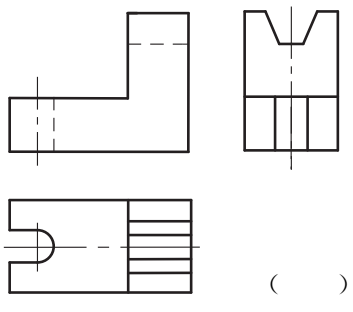
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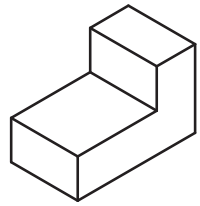
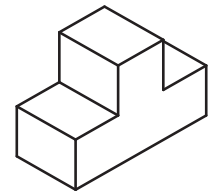
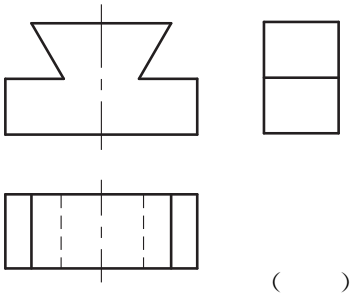

（1）


（2）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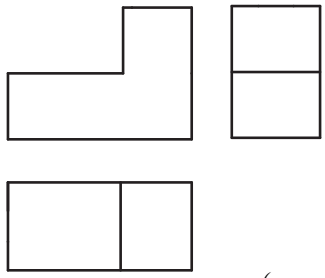
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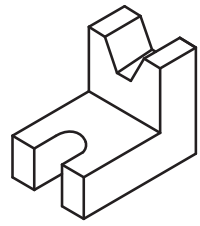
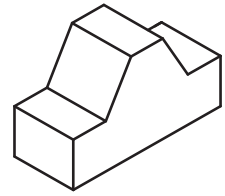

（3）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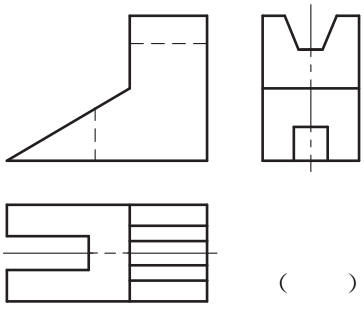
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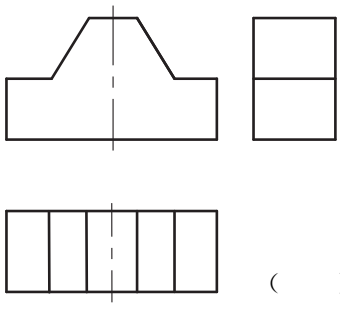
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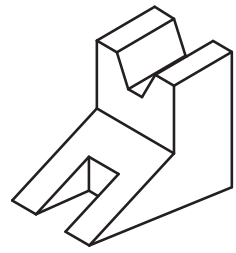
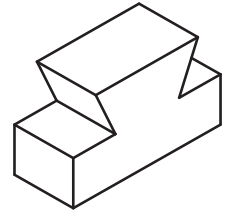

（5）


（6）

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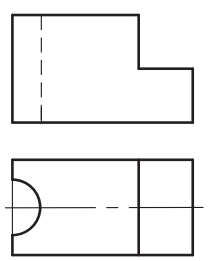
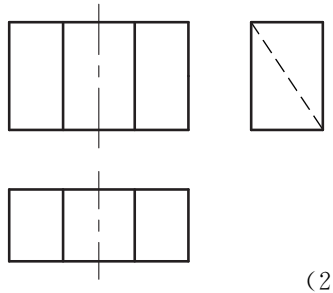
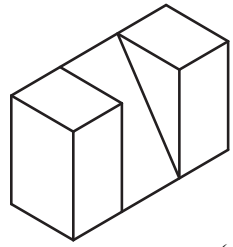
2－2　由三视图找出对应的立体图，并在括号内填上相应的编号



(1)



(2)



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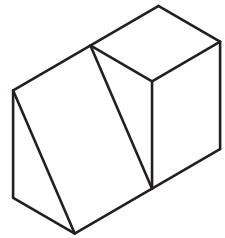
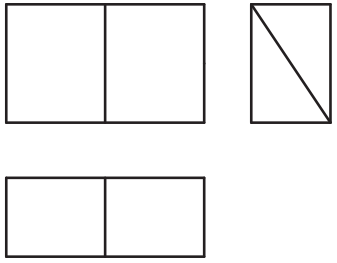
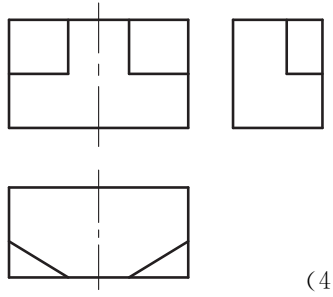


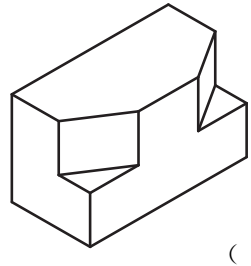
(　　)



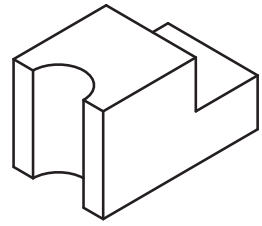
(3)



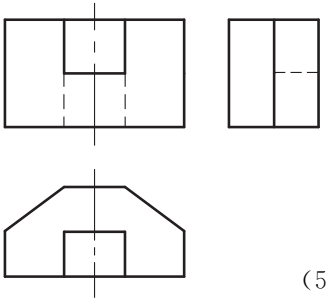
(4)



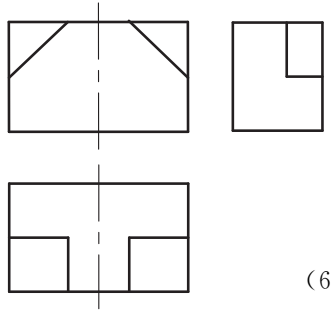
(　　)



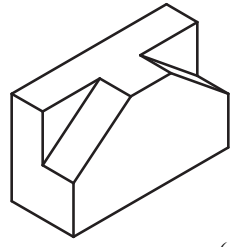
(　　)



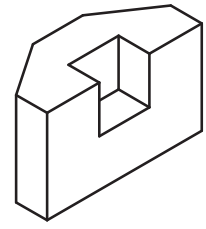
(5)



(6)



(　　)



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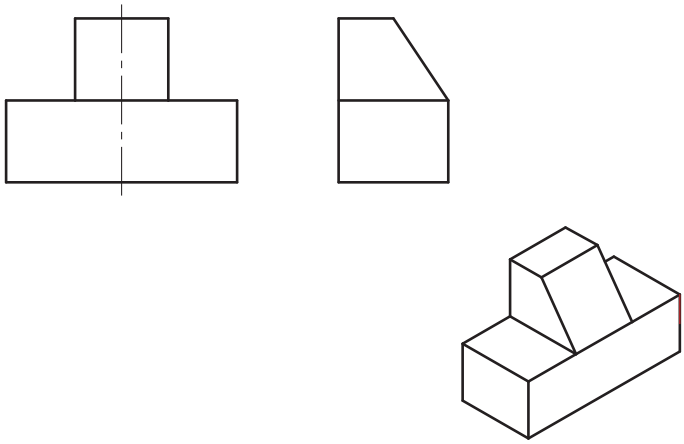
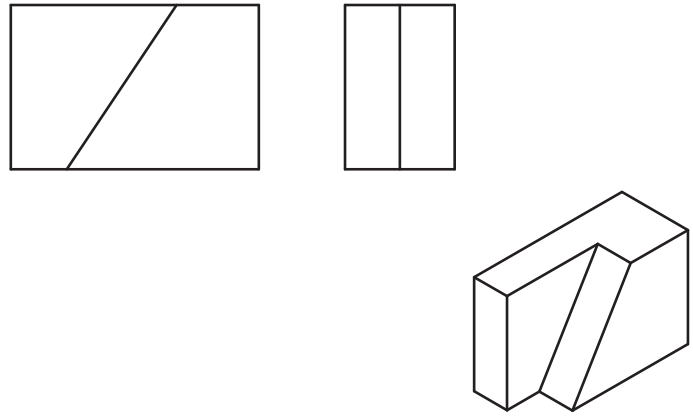
2－3　由给出的两个视图，参照轴测图补画第三视图

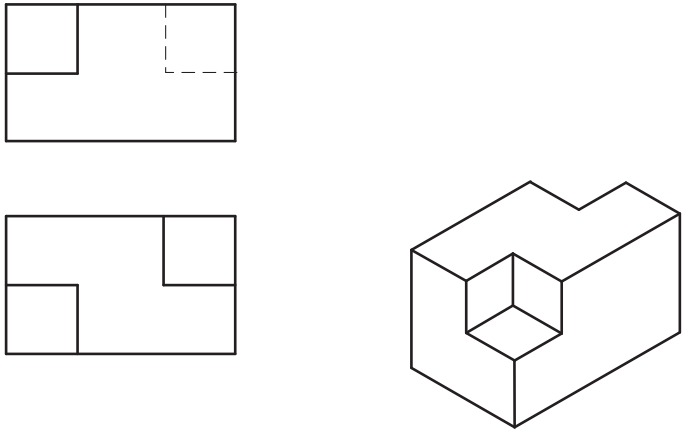
(1)



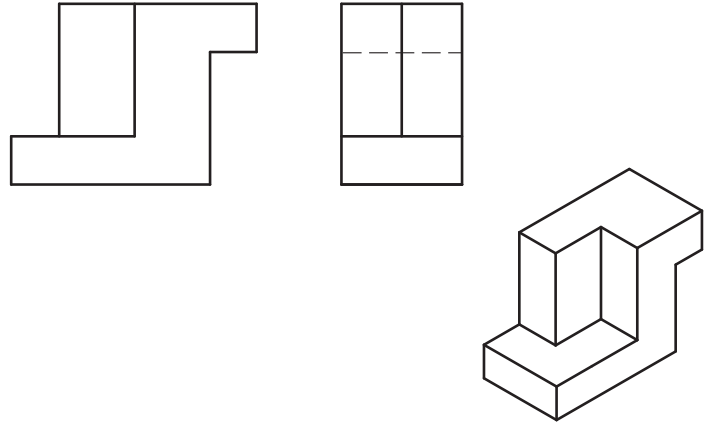
(2)



(3)



(4)



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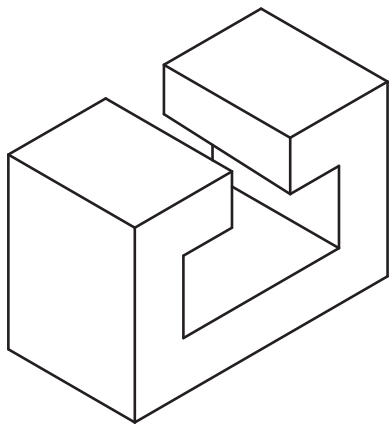
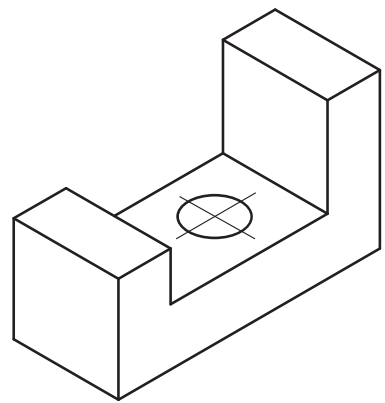
2－4　根据轴测图或模型画三视图

（1）



（2）



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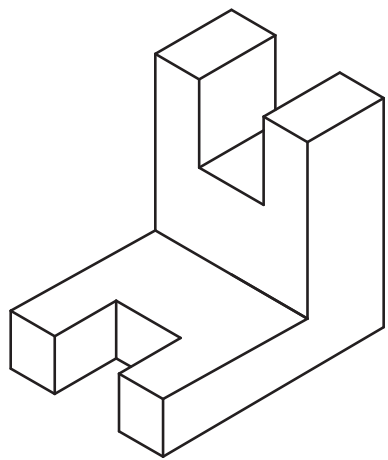
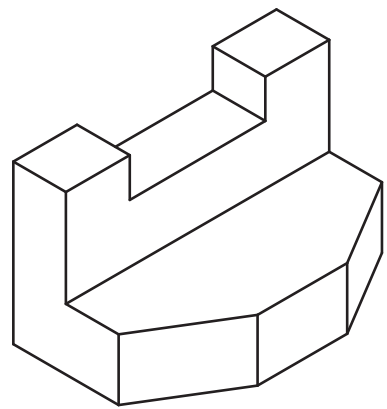
续 2－4　根据轴测图或模型画三视图

(3)



(4)



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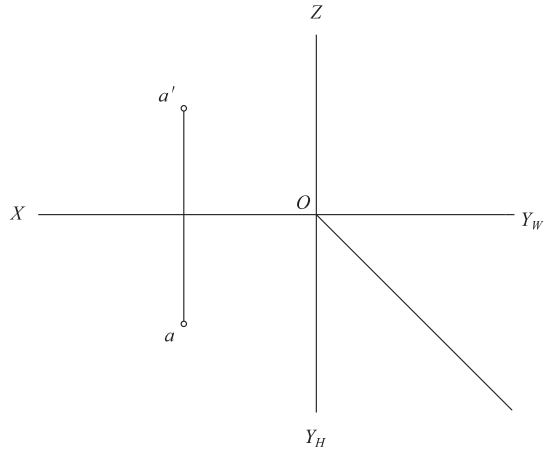
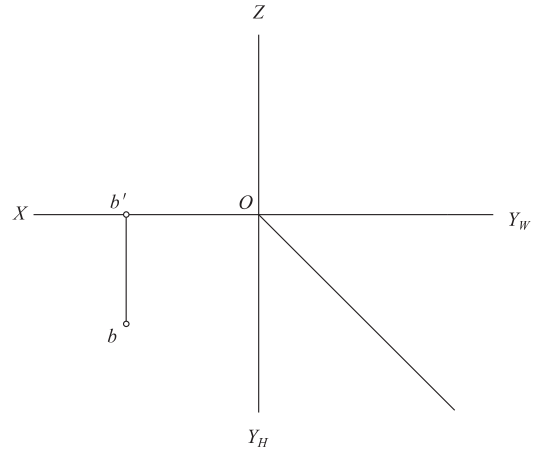
2－5　已知点的两面投影，求其第三面投影

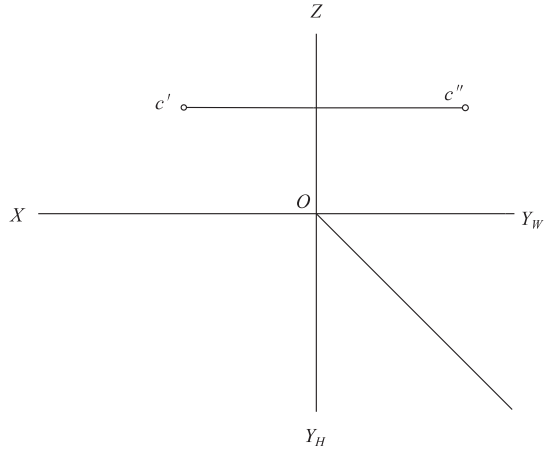
(1)



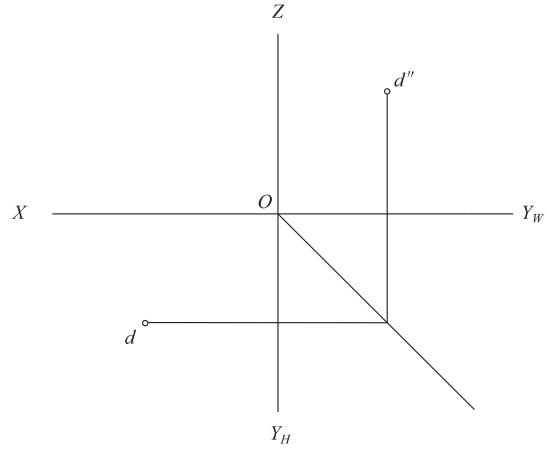
(2)



(3)



(4)



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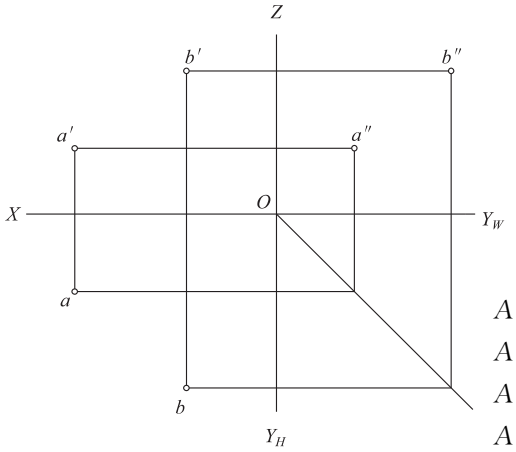
2－6　判别 *A*、*B* 两点的相对位置

(1)



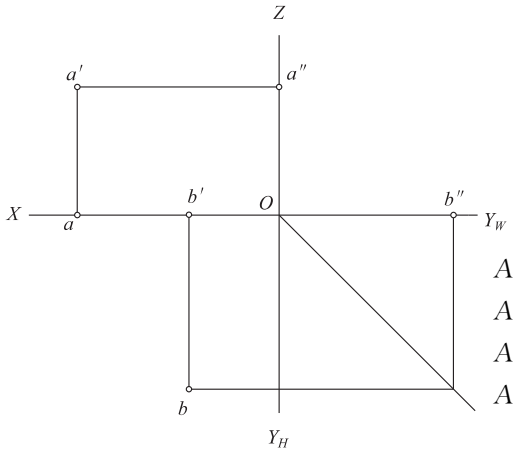
A 点在 *B* 点之__后__；

A 点在 *B* 点之_____；

A 点在 *B* 点之_____；

A 点在 *B* 点后方____mm。

(2)



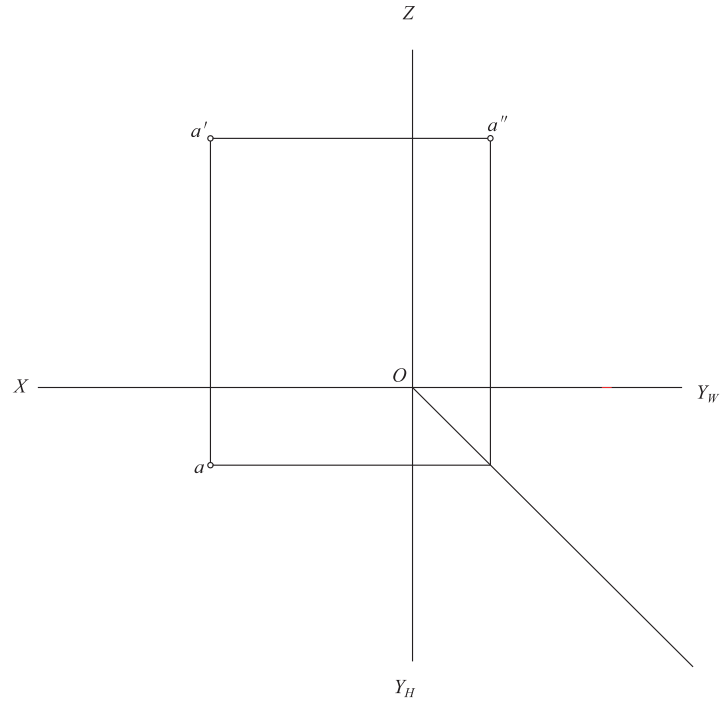
A 点在 *B* 点之_____；

A 点在 *B* 点之_____；

A 点在 *B* 点之_____；

A 点比 *B* 点靠左____mm。

(3) 已知 *B* 点在 *A* 点之右 25 mm，前 20 mm，下 30 mm，求 *B* 点的三面投影。



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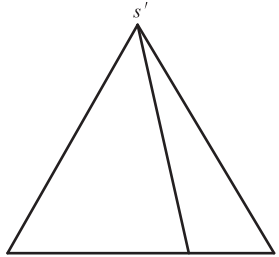
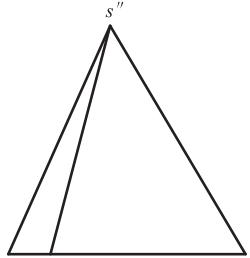
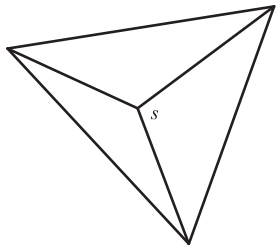
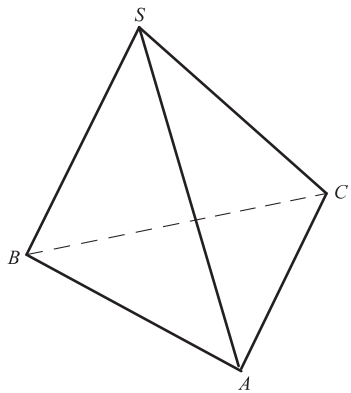
2－7　在三视图中指出立体上指定点的三面投影，画出它们每两面投影之间的投影连线，填空并回答问题

（1）









直线 SA 是(一般位置直) 线；

直线 SB 是_____线；

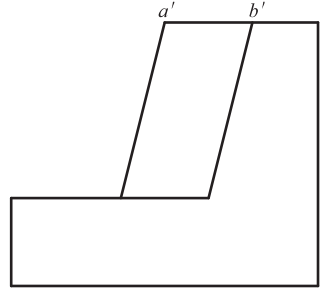
直线 SC 是_____线；

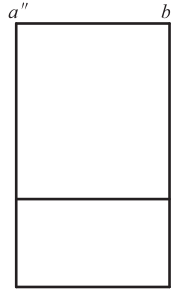
平面△ASC 是_____面；

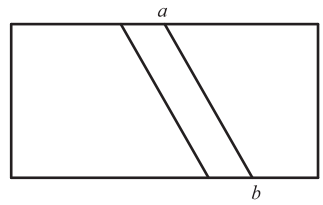
平面△ABC 是_____面；

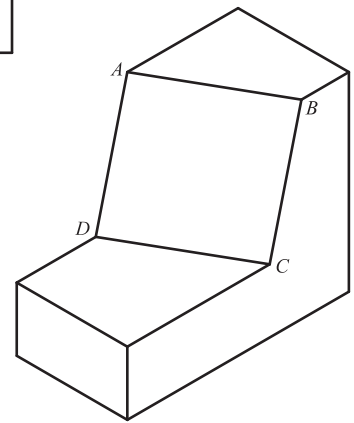
平面△BSC 是_____面。

（2）









直线 AB 是（水平）线；

直线 AD 是_____线；

直线 CD 是_____线；

平面四边形 $ABCD$ 是_____面。

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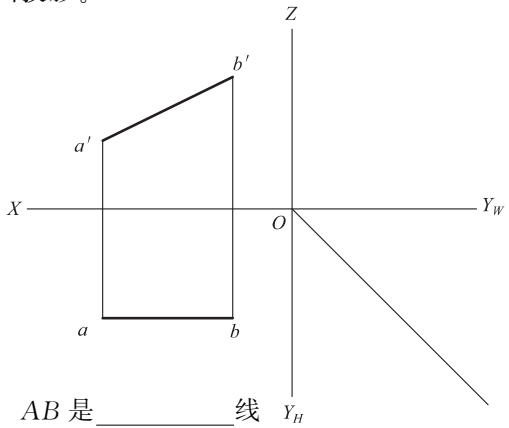
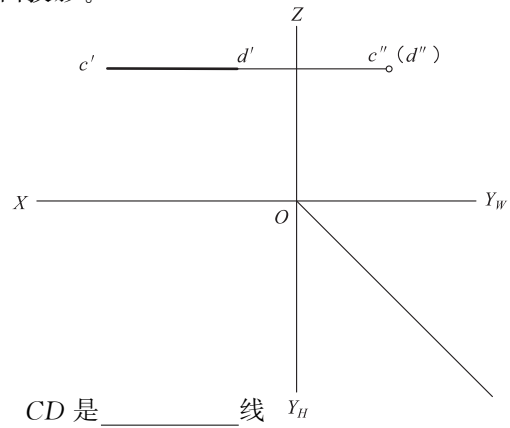
2－8　直线和平面的投影

（1）已知直线 AB 的两面投影，求第三面投影。



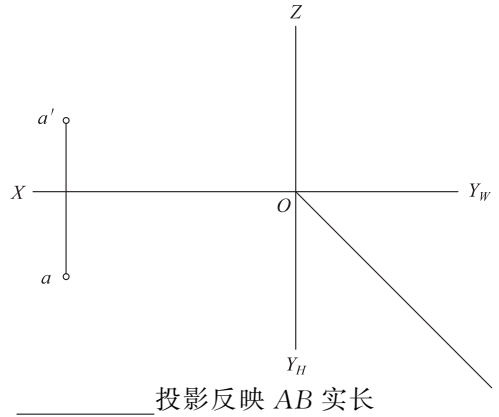
AB 是_____线

（2）已知直线 CD 的两面投影，求第三面投影。



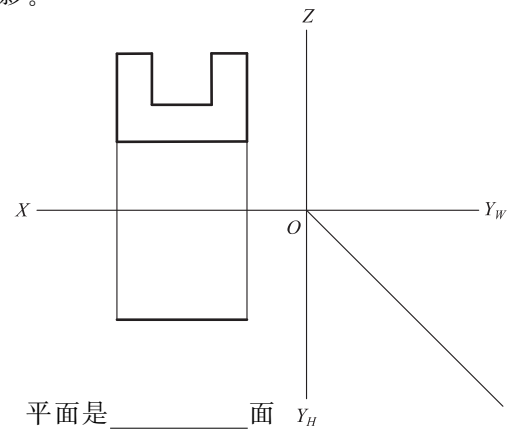
CD 是_____线

（3）已知水平线 AB 长 25 mm，点 B 在点 A 之右前方 10 mm，试完成其三面投影。



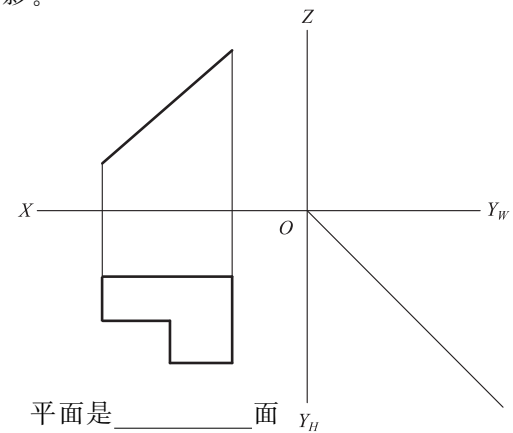
_____投影反映 AB 实长

（4）已知平面的两面投影，求第三面投影。



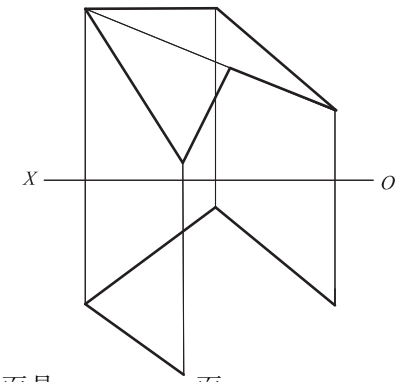
平面是_____面

（5）已知平面的两面投影，求第三面投影。



平面是_____面

（6）* 完成五边形的水平投影。



平面是_____面

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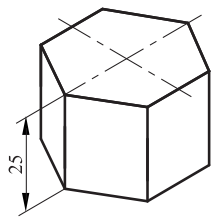
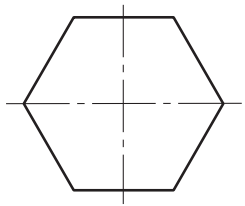
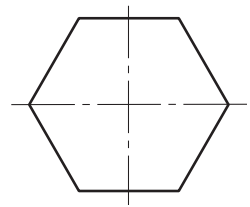
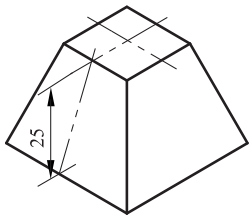
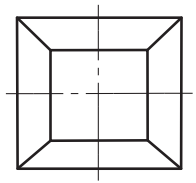
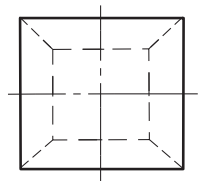
2－9　根据轴测图和一个已知视图，画出其他两个视图

轴测图	已知主视图	已知左视图
(1)  		
(2)  		

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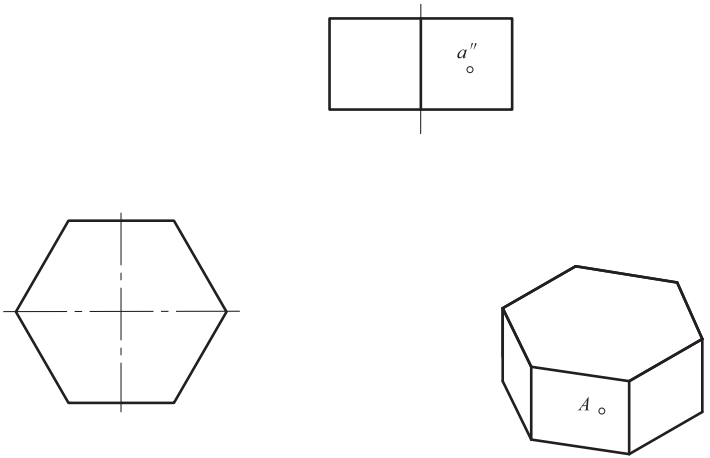
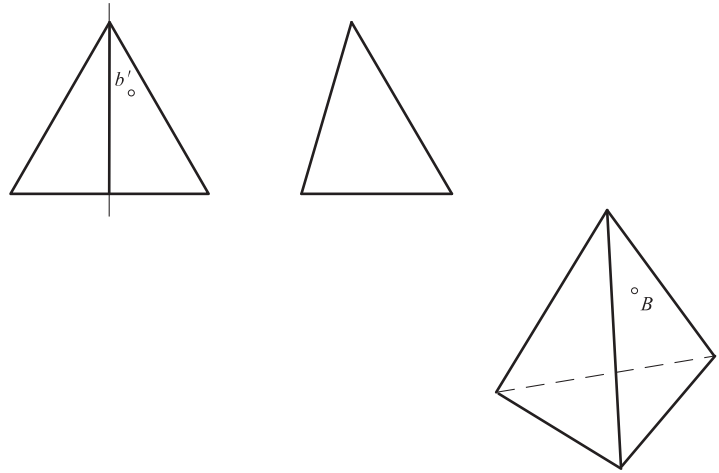
2－10　完成基本体的三视图，并作表面上指定点的另两个投影

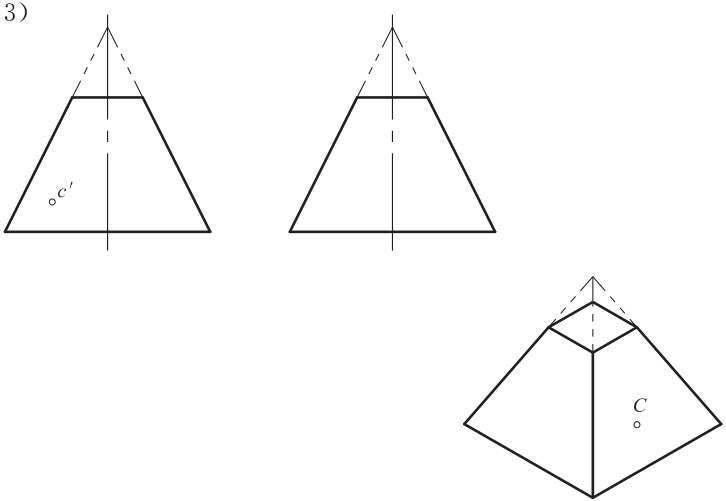
(1)



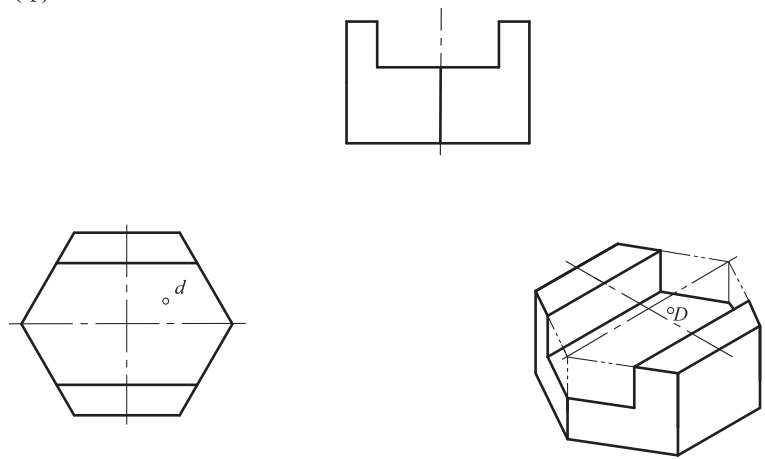
(2)



(3)



(4)



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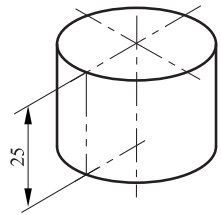
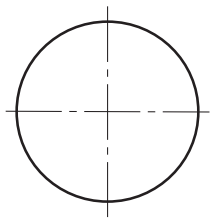
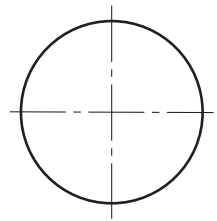
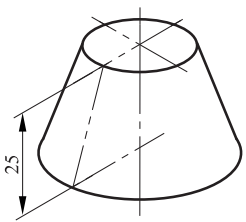
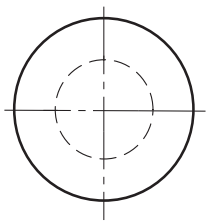
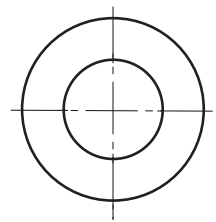
2－11　根据轴测图和一个已知视图，画出其他两个视图

轴测图	已知主视图	已知左视图
(1)  		
(2)  		

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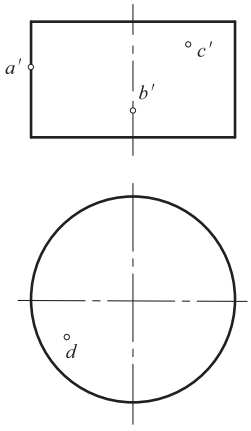
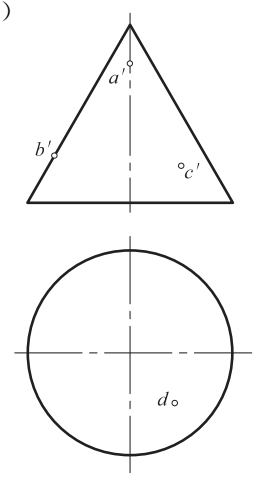
2－12　识别基本体，完成三视图，并求作回转体表面上点的三面投影

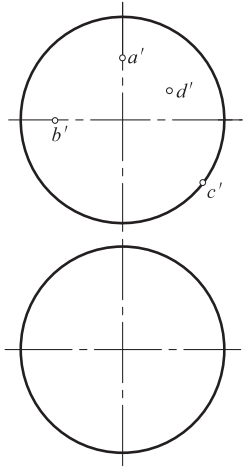
(1)



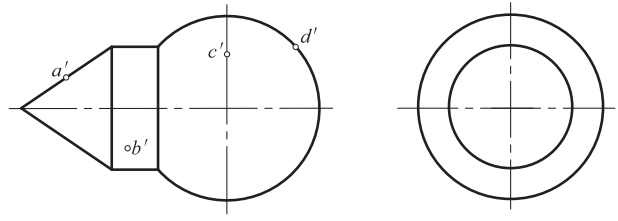
(2)



(3)



(4)



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2－13　根据给出的主视图构思设计简单形体，试给出三个答案，并完成它们的三视图

1.

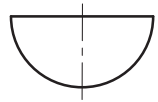
(1)

(2)

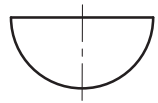
(3)

2.

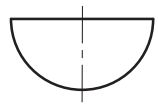
(1)



(2)



(3)



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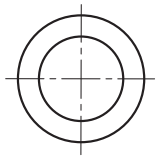
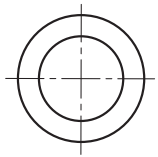
续 2－13　根据给出的主视图构思设计简单形体，试给出三个答案，并完成它们的三视图

3.

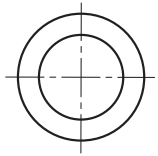
(1)



(2)

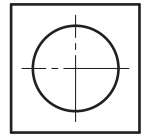


(3)

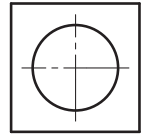


4.

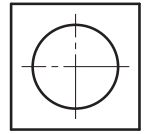
(1)



(2)



(3)



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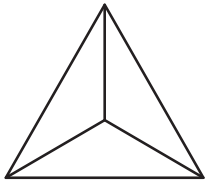
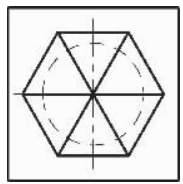
2－14　根据一面视图，按要求补画其他视图（两几何体间必须以平面相接触）

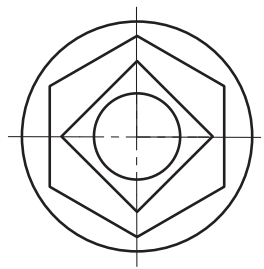
（1）根据主视图，补画俯、左视图（该体由三个几何体组成）。



（2）根据左视图，补画主视图（该体由四个几何体组成）。



（3）根据俯视图，补画主、左视图（该体由五个几何体组成）。



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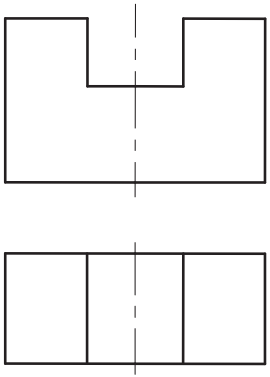
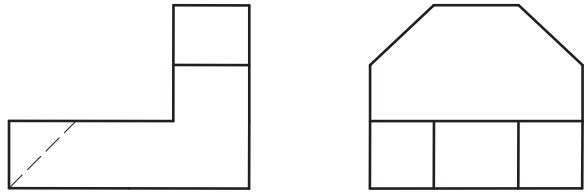
第三章　轴　测　图

3－1　根据平面体的两面视图补画第三视图，并补画轴测图

（1）



（2）



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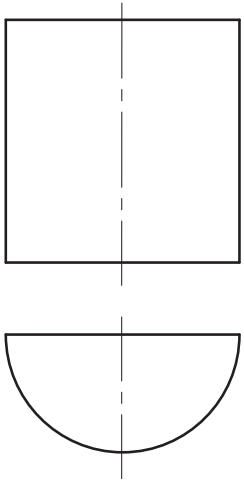
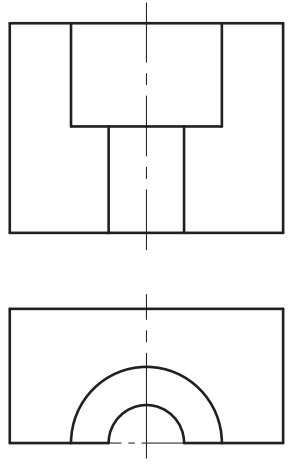
3－2　补画第三视图，画正等测轴测图

（1）



（2）



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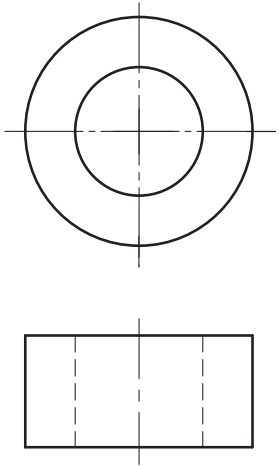
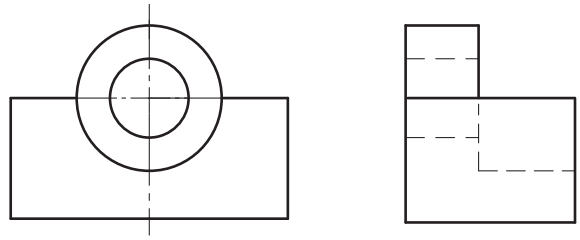
3－3　补画第三视图，并画斜二测轴测图

（1）



（2）



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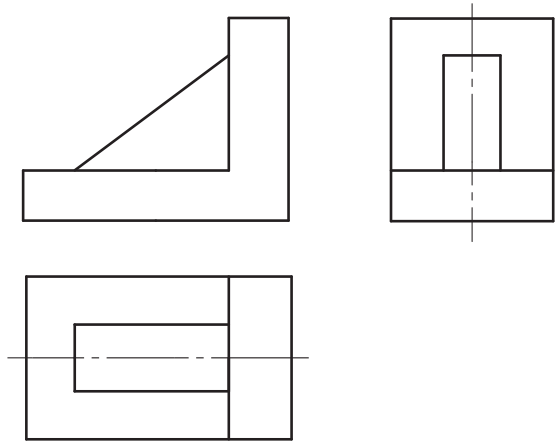
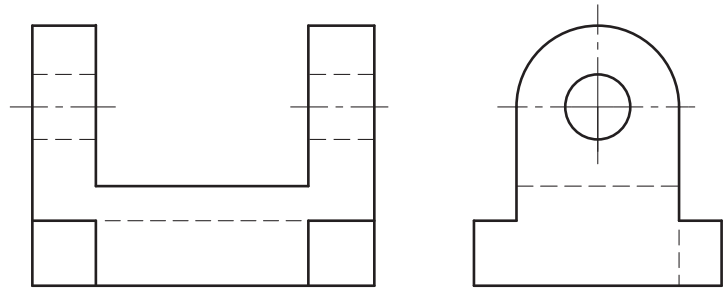
3－4　读视图，并补画正等测轴测图

（1）



（2）



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