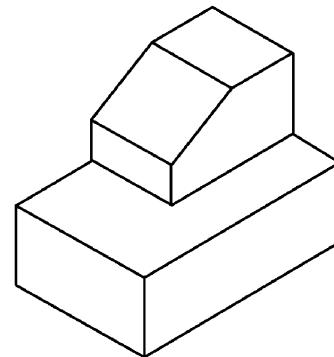
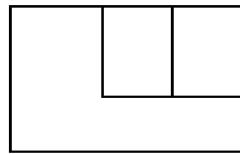
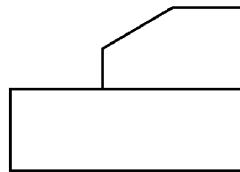
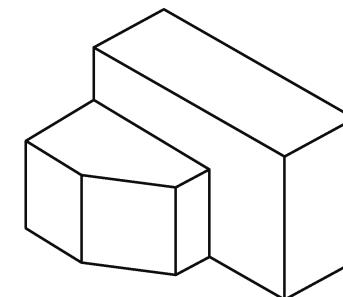
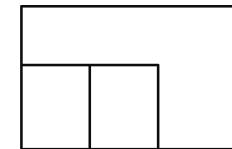
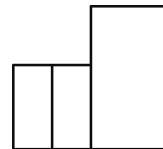


1-1 根据立体图和两视图,补画第三视图(铅笔作图。可见轮廓:粗实线;不可见:细虚线;圆中心线:点画线)

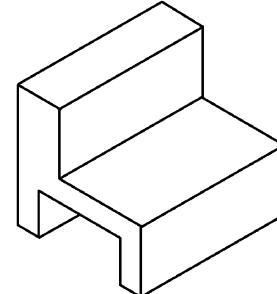
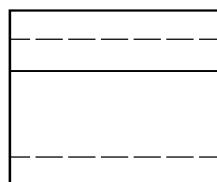
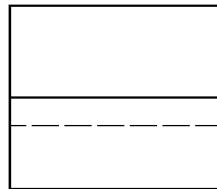
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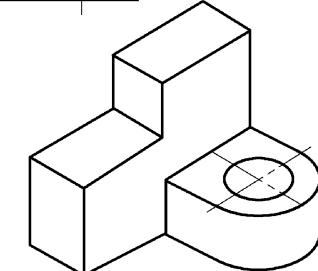
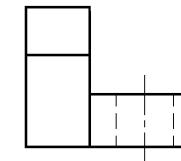
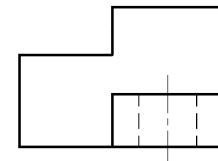
2.



3.

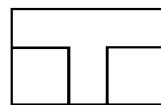
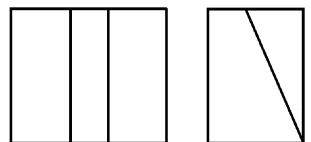


4.

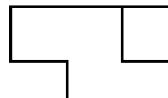
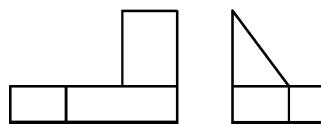


1-2 分析三视图,找出与其对应的立体图,并在空圆圈内填写对应的视图序号

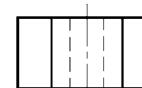
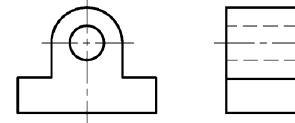
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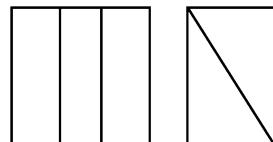
2.



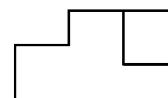
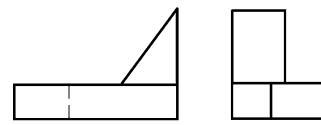
3.



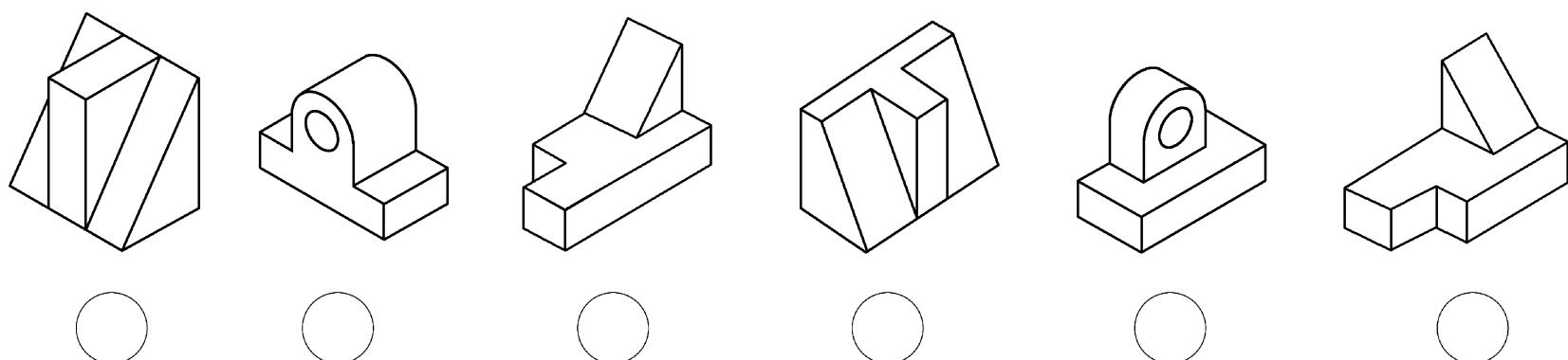
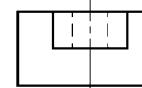
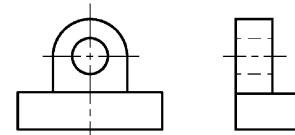
4.



5.

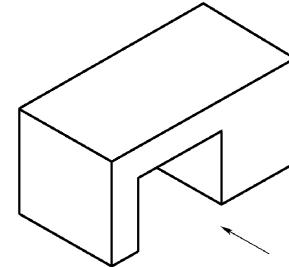
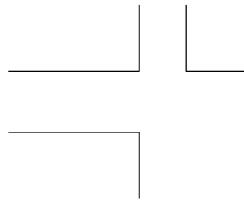


6.

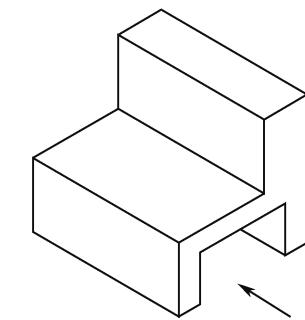
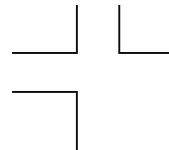


1-3 根据立体图和主视方向,在给定位置画三视图(尺寸图上1:1量取)

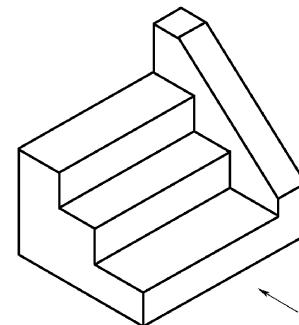
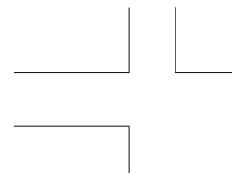
1.



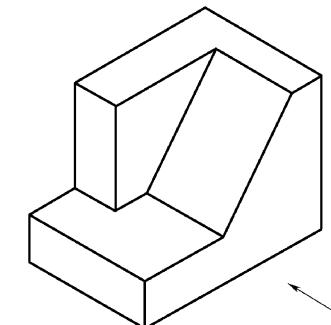
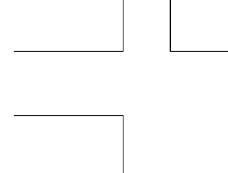
2.

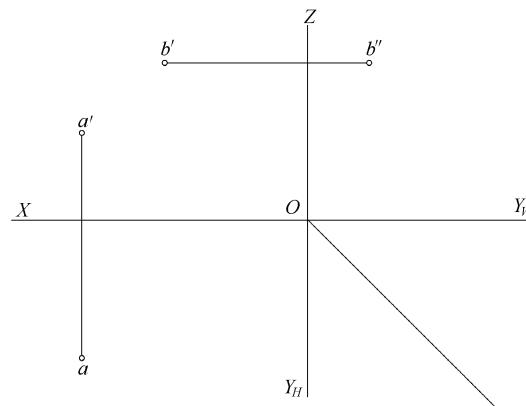
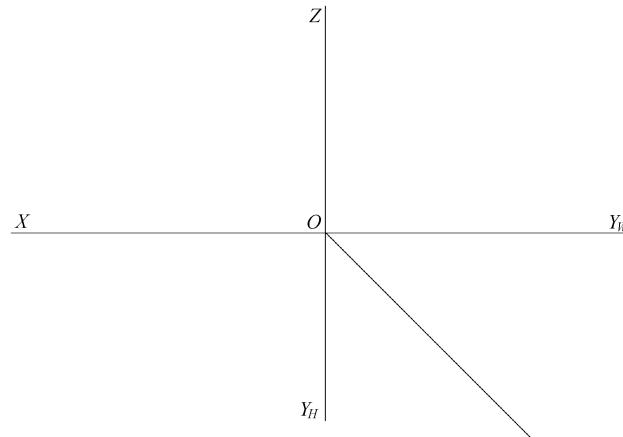
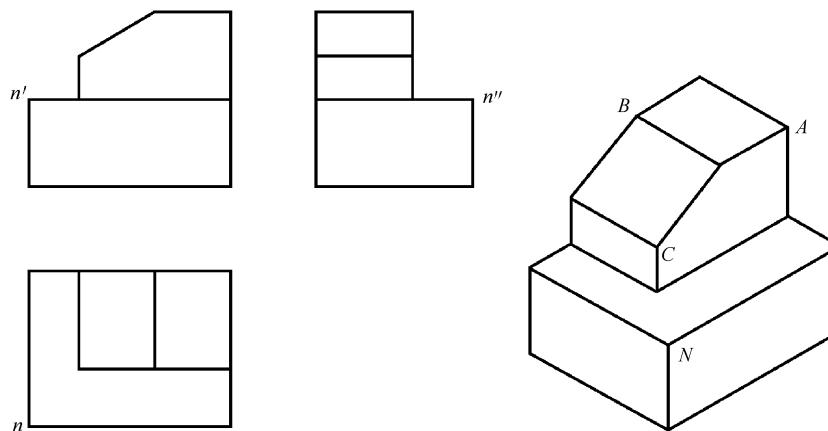
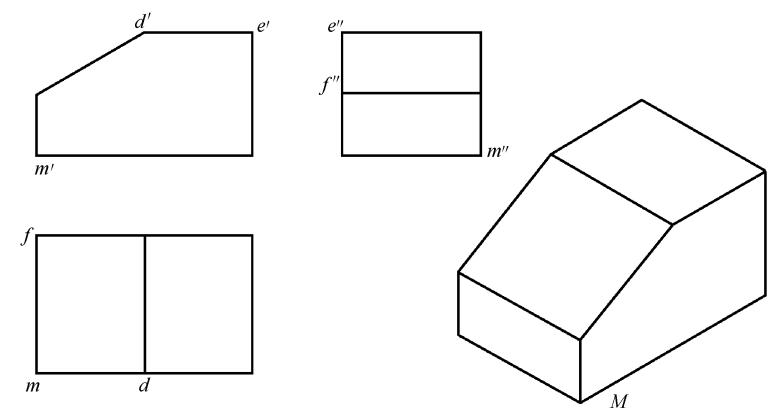


3.



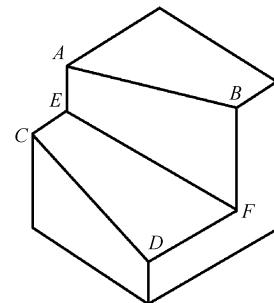
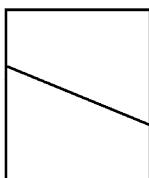
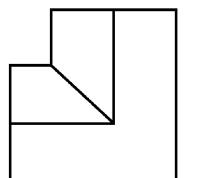
4.



1-4 点的投影(点的投影用小写字母或加撇表示,例如 a, a', a'' , 投影连线用细实线画出)1. 已知 A, B 点的两面投影, 求作它们的第三投影。2. 已知点 $C(30, 20, 25), D(20, 10, 25)$, 求其三面投影。3. 在三视图上标出 A, B, C 三点的投影(如图示例:点 N)。4. 已知三视图中点 D, E, F 的两面投影, 求作第三投影, 并在立体图中加以标记(如图示例:点 M)。

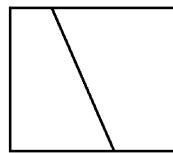
1-5 直线的投影(一)

1. 在物体的三视图中,标出线段 AB、CD、EF 的投影。

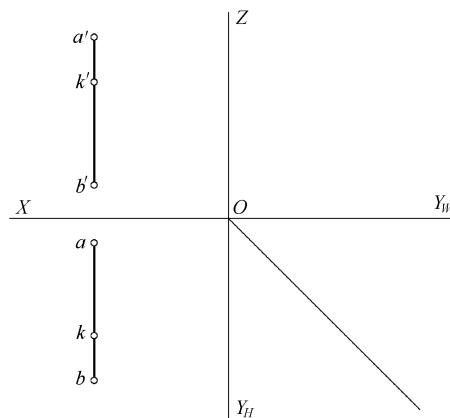


判别直线对投影面的位置并填空:

- ①AB 是_____线; CD 是_____线。
- ②BF 是_____线; DF 是_____线。
- ③EF 是_____线。

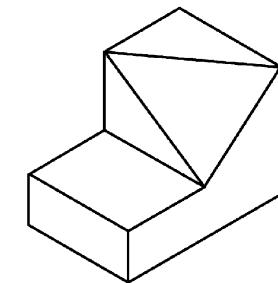
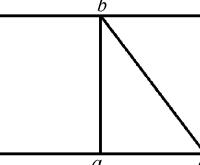
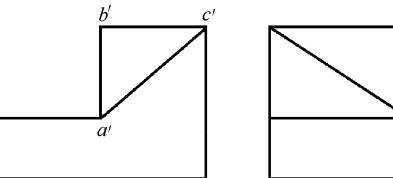


3. 判断点 K 是否在直线 AB 上(注意画出必要的辅助线)。



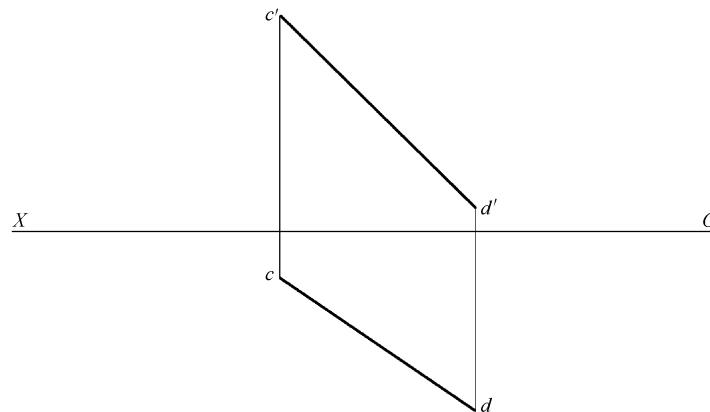
判断:
点 K _____ AB 上
(在, 或者不在)。

2. 在物体的三视图中,完成线段 AB、BC、CA 的侧面投影,在立体图中标出端点 A、B、C 的位置并填空。



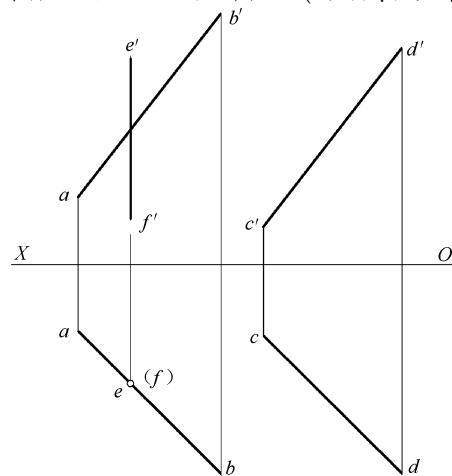
- ①反映 AB 实长的投影是_____。
- ②反映 BC 实长的投影是_____。
- ③反映 AC 实长的投影是_____。

4. 求直线 CD 的实长以及对 H 面的倾角 α 。



1-6 直线的投影(二)

1. 判断空间两直线相对位置(平行、相交、交叉)。



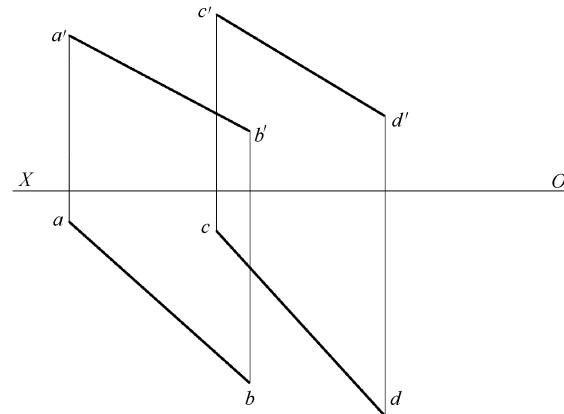
判断并填空：

AB 与 CD _____;

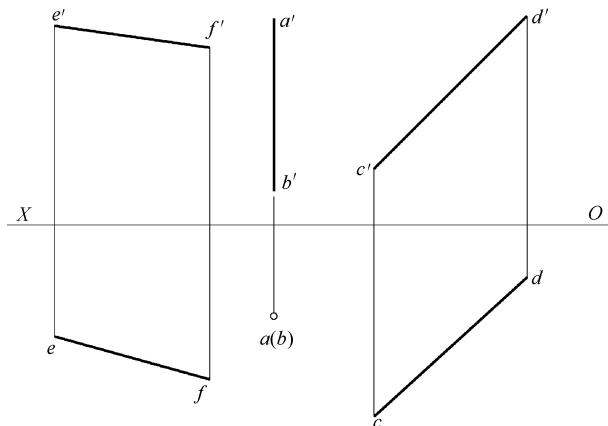
AB 与 EF _____;

CD 与 EF _____。

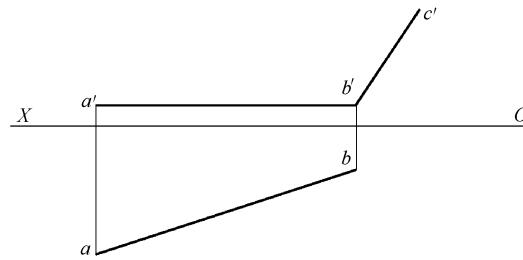
2. 求作水平线 EF 距离 H 面 15mm，并与 AB 、 CD 相交于 E 、 F 点。



3. 试作一直线 MN ,使其与 EF 平行并与 AB 、 CD 两直线相交。

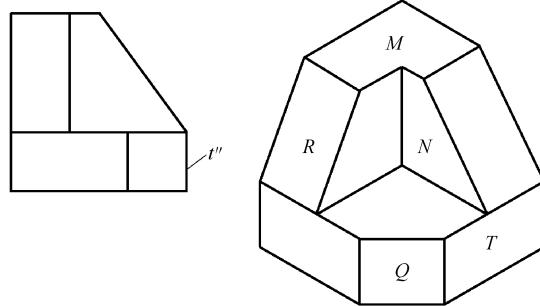
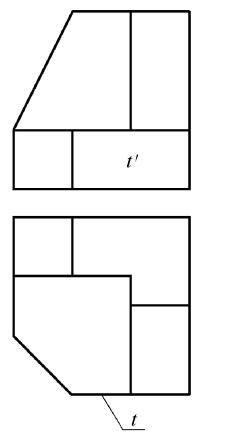


4. 完成矩形 $ABCD$ 的两面投影($AB \parallel H$ 平面)。



1-7 平面的投影

1. 在三视图中标出立体上各表面的3个投影(示例:平面T)。

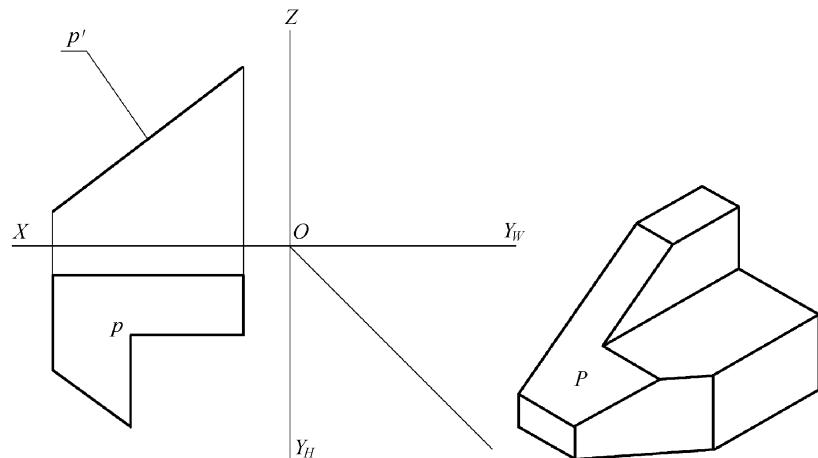


判断并填空(示例:T是正平面):

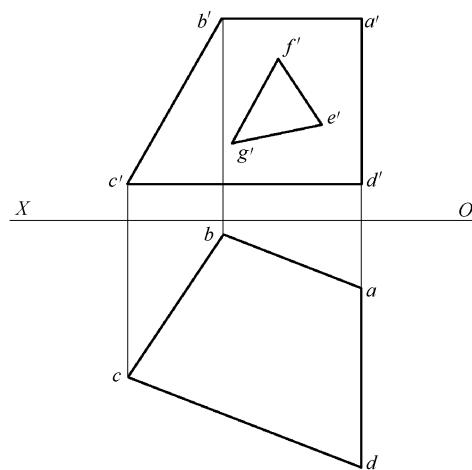
M是_____面;N是_____面。

R是_____面;Q是_____面。

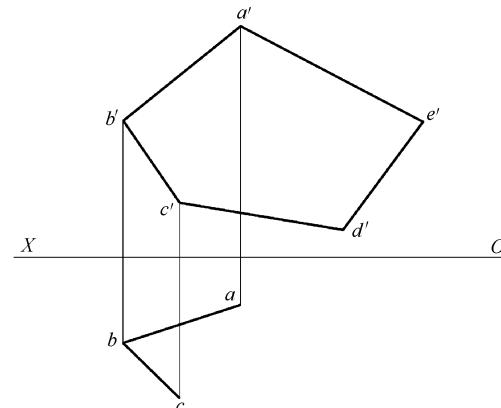
2. 观察立体图,完成平面P的侧面投影。



3. 完成平面ABCD上 $\triangle EFG$ 的水平投影。

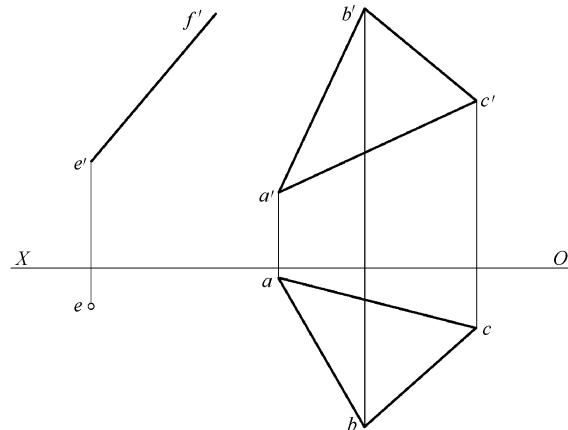


4. 完成平面五边形ABCDE的水平投影。

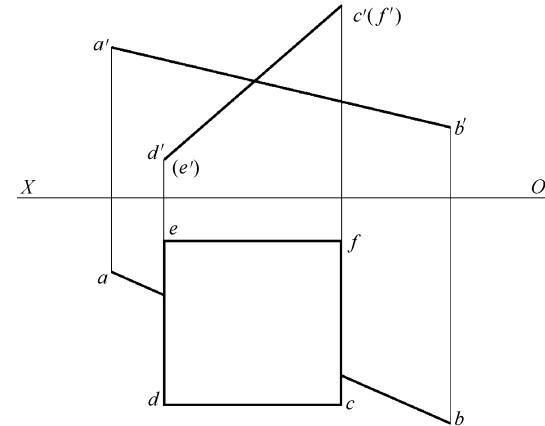


1-8 直线与平面的相对位置(可见线用粗实线,不可见线用细虚线表示)

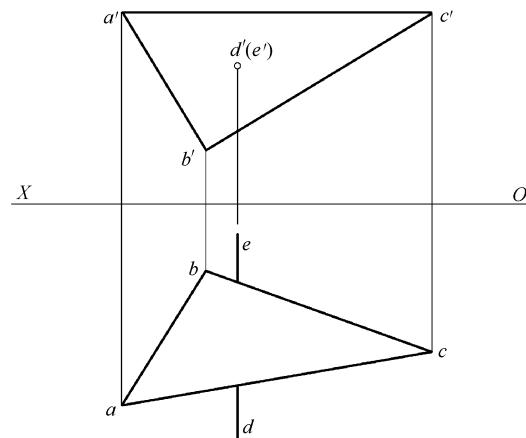
1. 已知 EF 平行于 $\triangle ABC$, 试完成 EF 的水平投影。



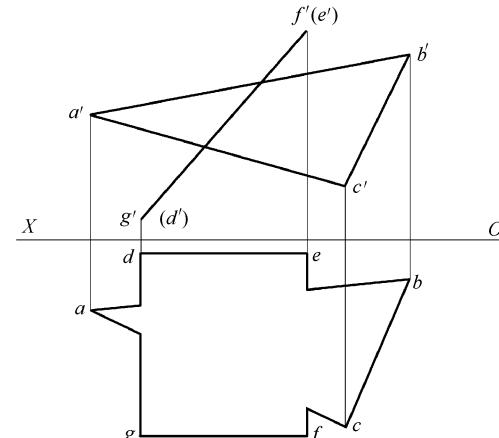
2. 求 AB 与平面 $CDEF$ 的交点 K , 并表明可见性。



3. 求正垂线 DE 与 $\triangle ABC$ 的交点 M , 并表明可见性。

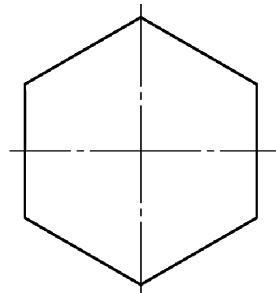
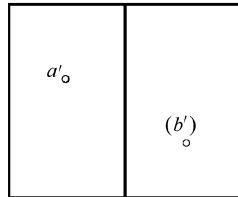


4. 求作 $\triangle ABC$ 与矩形 $DEFG$ 的交线 MN , 并表明可见性。

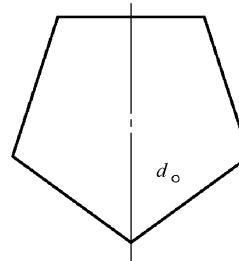
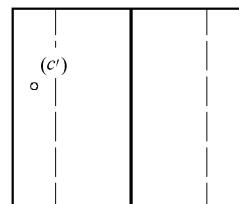


1-9 求作平面立体的第三投影，并完成立体表面上点的其余两投影（注意点的可见性判别）

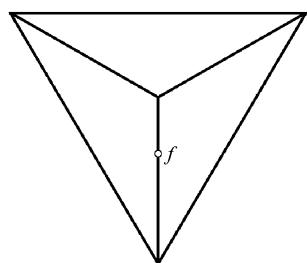
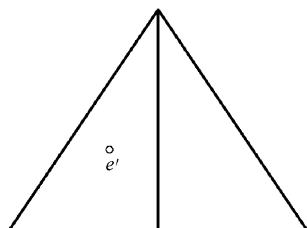
1.



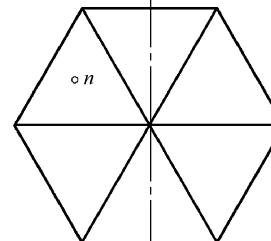
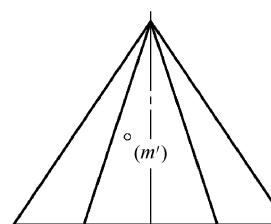
2.



3.

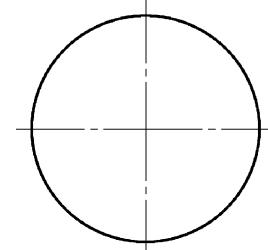
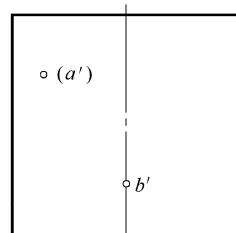


4.

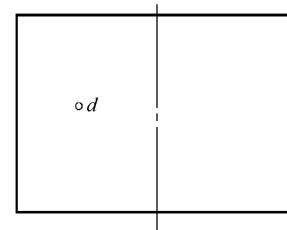
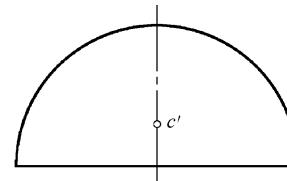


1-10 完成曲面立体的第三投影，并求作立体表面上点的其余两投影（注意中心轴线的画法与点的可见性判别）

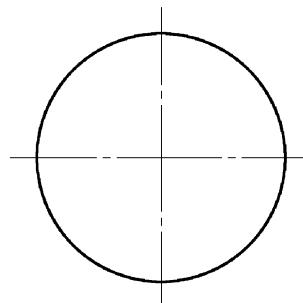
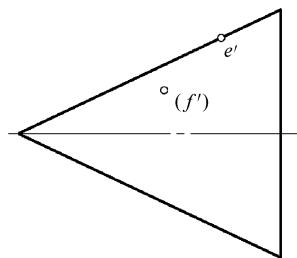
1.



2.



3.



4.

